Industrial Power Supplies

www.DeltaPSU.com

DELTA

About Delta

Delta, founded in 1971, is a global leader in switching power supplies and thermal management products with a thriving portfolio of smart energy-saving systems and solutions in the fields of industrial automation, building automation, telecom power, data center infrastructure, EV charging, renewable energy, energy storage and display, to nurture the development of smart manufacturing and sustainable cities. As a world-class corporate citizen guided by its mission statement, "To provide innovative, clean and energy-efficient solutions for a better tomorrow," Delta leverages its core competence in high-efficiency power electronics and its ESG-embedded business model to address key environmental issues, such as climate change. Delta serves customers through its sales offices, R&D centers and manufacturing facilities spread over close to 200 locations across 5 continents.

Throughout its history, Delta has received various global awards and recognition for its business achievements, innovative technologies and dedication to ESG. Since 2011, Delta has been listed on the DJSI World Index of Dow Jones Sustainability ™ Indices for 11 consecutive years. In 2021, Delta was also recognized by CDP with leadership level ratings for its substantial contribution to climate change and water security issues and named Supplier Engagement Leader for its continuous development of a sustainable value chain.

For detailed information about Delta, please visit: www.deltaww.com

Business Categories

Power Electronics

- Components
- Power and System
- Fan & Thermal Management
- Automotive Electronics

Innergie

Automation

- Industrial Automation
- Building Automation

Infrastructure

- ICT Infrastructure
- Energy Infrastructure & Industrial Solutions

vivitek
Vivid Color, Vivid Life

About Power and System Business Group (PSBG)

- World's leading provider of power products and solutions
- First power product launched in 1983

Power Conversion

Smart Drive & Control

Battery Charger

Green Energy

Power to a Smart Future with High Energy Efficiency

PSBG offers cutting-edge power products and system to innovate cloud computing, network connectivity, client devices, industrial and medical industry, lighting, and appliances and e-mobility with global customers.

Index

Delta Industrial Power Supplies

Delta standard industrial power supplies comprise of DIN rail, panel mount and open frame types. With over 40 years of experience in power technologies, Delta delivers an extensive range of industrial power supplies that meet IEC 60950-1, IEC 62368-1, IEC 61347-2-13, UL 8750, IEC 60335-1, IEC 61558-1, IEC 61558-2-16 and many other more standards.

DIN Rail

A wide range of DIN rail power supplies offering start-up at -40°C, Advanced Power Boost (CliQ M & CliQ VA), smart monitoring function (CliQ VA), ultra slim design (Force-GT and LYTE II) for demanding applications.

Panel Mount

The latest PMT2 series low profile design at competitive prices for general industrial applications. MEB series offer a wide range of high power models with industrial and medical certifications.

Open Frame

PJ series open frame power supplies offer wide range of output voltages with versatile configuration options. The latest PJL series comes with lighting approvals such as UL 8750 and IEC 61347-2-13.

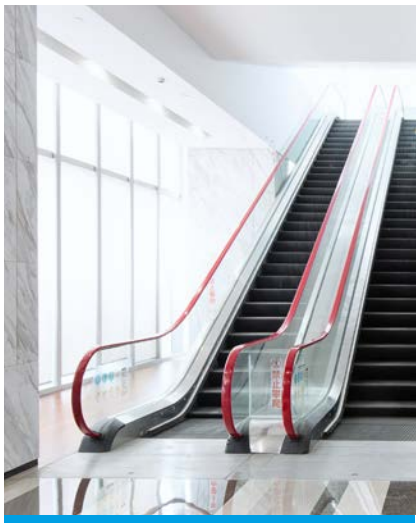
Modules

The DIN rail modules are useful accessories as part of the complete power management solution. They include DC-UPS, buffer and redundancy modules which are designed to work seamlessly with Delta DIN rail power supplies.

Adapter

The ADT adapter series offers efficiency up to 89% with extreme low no-load consumption below 0.15 W. These adapters are also meet DoE Level VI and CoC Tier 2 efficiency standards.

Applications

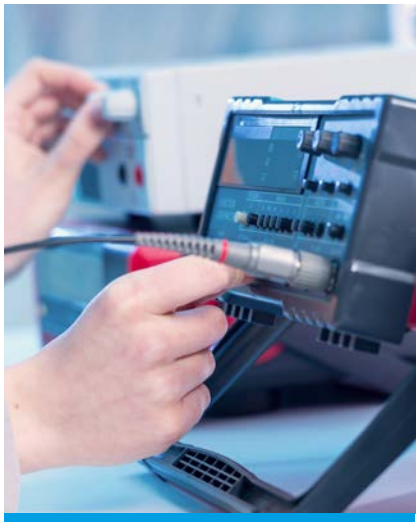


Building Automation

Machine Automation

Renewable Energy

Process Automation



Test & Measurement

Medical Equipment

Factory Automation

LED Signage

Household Appliance

Product Selection Guide

New products are frequently introduced. Please visit www.DeltaPSU.com for latest product updates.

Product Type	Series	Model Name	Phase			PFC	Output Voltage	Output Current	Output Power	Input Voltage Range*	Page
			1	2	3						
DIN Rail Power Supplies	**CliQ II** • IP20 connector • Power Boost up to 5 s	DRP024V060W1B☐	●				24 V	2.5 A	60 W	85-264 V_{AC} (DC input range 120-375 V_{DC})	15
		DRP024V120W1B☐	●					5.0 A	120 W		
		DRP024V240W1B☐	●			●		10.0 A	240 W		
		DRP024V480W1B☐	●			●		20.0 A	480 W		
		DRP024V060W1N☐	●					2.5 A	60 W	85-264 V_{AC} (DC input range 120-375 V_{DC})	16
		DRP-24V100W1NN	●			●		3.8 A	91.2 W		
		DRP-24V120W2BN	●	●				5.0 A	120 W	2 × 180-550 V_{AC} or 180-305 V_{AC} (Single Phase) (DC input range 254-780 V_{DC})	17
		DRP-24V240W2BN	●	●		●		10.0 A	240 W		
		DRP024V060W3B☐		●	●			2.5 A	60 W	3 × 320-600 V_{AC} or 2 × 360-600 V_{AC} (DC input range 450-800 V_{DC}) For 960 W: 3 × 320-600 V_{AC} or 2 × 380-600 V_{AC} (DC input range 450-800 V_{DC})	18
		DRP024V120W3B☐		●	●			5.0 A	120 W		
		DRP024V240W3B☐		●	●			10.0 A	240 W		
		DRP024V480W3B☐		●	●	●		20.0 A	480 W		
		DRP024V960W3BN		●	●	●		40.0 A	960 W		
		DRP048V060W1B☐	●				48 V	1.25 A	60 W	85-264 V_{AC} (DC input range 120-375 V_{DC})	19
		DRP048V120W1B☐	●			●		2.5 A	120 W		
		DRP048V240W1B☐	●			●		5.0 A	240 W		
		DRP048V480W1B☐	●			●		10.0 A	480 W		
	CliQ III • Slim design with high power density • Power Boost up to 5 s	DRP-24V120W1CAN	●			●	24 V	5.0 A	120 W	88-264 V_{AC}	20
		DRP-24V120W1CBN	●			●		5.0 A	120 W	88-264 V_{AC} (DC input range 88-375 V_{DC})	
		DRP-24V240W1CAN	●			●		10.0 A	240 W	88-264 V_{AC}	
		DRP-24V240W1CBN	●			●		10.0 A	240 W	88-264 V_{AC} (DC input range 88-375 V_{DC})	
		DRP-24V480W1CAN	●			●		20.0 A	480 W	88-264 V_{AC}	
		DRP-24V480W1CBN	●			●		20.0 A	480 W	88-264 V_{AC} (DC input range 88-375 V_{DC})	
	CliQ M • Slim design with high power density • Advanced Power Boost • Maritime approvals	DRM-24V80W1PN	●			●	24 V	3.4 A	81.6 W	85-276 V_{AC} (DC input range 88-375 V_{DC})	21
		DRM-24V120W1PN	●			●		5.0 A	120 W	85-264 V_{AC} (DC input range 88-375 V_{DC})	
		DRM-24V240W1PN	●			●		10.0 A	240 W	85-276 V_{AC} (DC input range 88-375 V_{DC})	
		DRM-24V480W1PN	●			●		20.0 A	480 W		
		DRM-24V960W1PN	●			●		40.0 A	960 W	85-264 V_{AC}	
		DRM-24V480W3PN		●	●	●		20.0 A	480 W	3 × 320-600 V_{AC} or 2 × 380-600 V_{AC}	22
		DRM-24V960W3PN		●	●	●		40.0 A	960 W		
		DRM-24V480W1SN	●			●		20.0 A	480 W	85-276 V_{AC} (DC input range 88-375 V_{DC})	23

* DC input is certified for selected models

Model Numbering

DR	P	XXXV	XXXW	☐	☐	☐
DIN Rail	**Product Type** P - Power Supply	**Output Voltage**	**Output Power**	**Phase Input** 1 - Single Phase 2 - Two Phase 3 - Three Phase	B - CliQ II Series N - NEC Class 2	A - Metal case, with Class I, Div 2 and ATEX approvals N - Metal case, without Class I, Div 2 and ATEX approvals Y - Plastic case, with Class I, Div 2 and ATEX approvals Z - Plastic case, without Class I, Div 2 and ATEX approvals

DR	P –	XXV	XXXW	1	C	☐	N
DIN Rail	**Product Type** P - Power Supply	**Output Voltage**	**Output Power**	**Phase Input** 1 - Single Phase	C - CliQ III Series	**Input Voltage** A - AC Input B - AC & DC Input	N - Metal case, without Class I, Div 2 and ATEX approvals

DR	M –	XXV	XXXW	☐	☐	N
DIN Rail	**Product Series** M - CliQ M Series	**Output Voltage**	**Output Power**	**Phase Input** 1 - Single Phase 3 - Three Phase	P - Advanced Power Boost (APB) S - Advanced Power Boost (APB) with SIL3 approval	N - Metal case, without Class I, Div 2 and ATEX approvals

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Product Type	Series	Model Name	Phase			PFC	Output Voltage	Output Current	Output Power	Input Voltage Range*	Page
			1	2	3						
DIN Rail Power Supplies	**CliQ VA** • Smart monitoring function • Advanced Power Boost	DRV-24V120W1PN	●			●	24 V	5.0 A	120 W	85-264 V_{AC} (DC input range 88-375 V_{DC})	24
		DRV-24V240W1PN	●			●		10.0 A	240 W	85-276 V_{AC} (DC input range 88-375 V_{DC})	
		DRV-24V480W1PN	●			●		20.0 A	480 W		
	Force-GT • Built-in constant current circuit for charging applications • Ultra slim design	NEW DRF-12V120W1GBA	●			●	12 V	10.0 A	120 W	90-264 V_{AC}	25
		NEW DRF-12V240W1GBA	●			●		20.0 A	240 W		
		NEW DRF-24V120W1GBA	●			●	24 V	5.0 A	120 W		
		NEW DRF-24V240W1GBA	●			●		10.0 A	240 W	90-264 V_{AC}	26
		NEW DRF-24V480W1GBA	●			●		20.0 A	480 W		
		NEW DRF-48V120W1GBA	●			●	48 V	2.5 A	120 W		
		NEW DRF-48V240W1GBA	●			●		5.0 A	240 W		
		NEW DRF-48V480W1GBA	●			●		10.0 A	480 W		
		NEW DRF-24V120W3GBA		●	●		24 V	5.0 A	120 W	3 x 320-575 V_{AC} (3-Phase) or 2 x 340-575 V_{AC} (2-Phase) (DC input range 450-800 V_{DC})	27
		NEW DRF-24V240W3GBA		●	●			10.0 A	240 W		
		NEW DRF-24V480W3GBA		●	●	●		20.0 A	480 W		
		NEW DRF-24V960W3GBA		●	●	●		40.0 A	960 W		
	LYTE • Competitively priced • Built-in constant current circuit	DRL-12V75W1AZ☐	●				12 V	6.25 A	75 W	85-264 V_{AC}	28
		DRL-24V75W1AZ☐	●				24 V	3.125 A	75 W		
		DRL-48V75W1AZ☐	●				48 V	1.57 A	75.36 W		
	LYTE II • Extreme slim width • Reduced no-load power consumption • Wide operating temperature	DRL-12V120W1EN☐	●				12 V	10.0 A	120 W	90-264 V_{AC}	29
		DRL-12V240W1EN☐	●			●		20.0 A	240 W		
		DRL-24V120W1EN☐	●				24 V	5.0 A	120 W		
		DRL-24V240W1EN☐	●			●		10.0 A	240 W		
		NEW DRL-24V480W1EN☐	●			●		20.0 A	480 W	90-264 V_{AC}	30
		DRL-48V120W1EN☐	●				48 V	2.5 A	120 W		
		DRL-48V240W1EN☐	●			●		5.0 A	240 W		
		NEW DRL-48V480W1EN☐	●			●		10.0 A	480 W		

* DC input is certified for selected models

Model Numbering

DR	V –	XXV	XXXW	1	P	N
DIN Rail	**Product Series** V - CliQ VA Series	**Output Voltage**	**Output Power**	**Phase Input** 1 - Single Phase	P - Advanced Power Boost (APB)	N - Metal case, without Class I, Div 2 and ATEX approvals

DR	F –	XXV	XXXW	☐	G	B	A
DIN Rail	**Product Series** F - Force Series	**Output Voltage**	**Output Power**	**Phase Input** 1 - Single Phase 3 - Three Phase	G - General Type	B - Screw Terminal	A - Delta Standard

DR	L –	XXV	XXXW	1	A	Z	☐
DIN Rail	**Product Type** L - LYTE Family	**Output Voltage**	**Output Power**	**Phase Input** 1 - Single Phase	A - LYTE Series with Standard Bracket	Z - Plastic case without DC OK Relay Contact	Blank - No coating R - With coating

DR	L –	XXV	XXXW	1	E	N	☐
DIN Rail	**Product Type** L - LYTE Family	**Output Voltage**	**Output Power**	**Phase Input** 1 - Single Phase	E - LYTE II Series with Slim Design	N - No DC OK Relay Contact	Blank - No coating A - With coating

Product Selection Guide

New products are frequently introduced. Please visit www.DeltaPSU.com for latest product updates.

Product Type	Series	Model Name	Phase 1	PFC	Output Voltage	Output Current	Output Power	Input Voltage Range*	Page
DIN Rail Power Supplies	**CHROME** • Compact • Class II double isolation • NEC Class 2	DRC-5V10W1A☐	●		5 V	1.5 A	7.5 W	90-264 V_{AC}	31
		DRC-12V10W1A☐	●		12 V	0.83 A	10 W		
		DRC-12V30W1A☐	●			2.1 A	25.2 W		
		DRC-12V60W1A☐	●			4.5 A	54 W		
		DRC-12V60W1CZ	●			4.5 A	54 W	90-264 V_{AC} (DC input range 125-375 V_{DC})	
		DRC-12V100W1AZ	●			6.0 A	72 W	90-264 V_{AC}	
		DRC-24V10W1A☐	●		24 V	0.42 A	10 W	90-264 V_{AC}	32
		DRC-24V10W1HZ	●			0.42 A	10 W		
		DRC-24V30W1A☐	●			1.25 A	30 W		
		DRC-24V60W1A☐	●			2.5 A	60 W		
		DRC-24V100W1A☐	●			3.8 A	91.2 W	90-264 V_{AC} (DC input range 125-375 V_{DC})	
	SYNC • Compact • NEC Class 2 • Competitively priced	DRS-5V30W1NZ	●		5 V	3.0 A	15 W	85-264 V_{AC} (DC input range 120-375 V_{DC})	33
		DRS-5V50W1A☐	●			6.0 A	30 W		
		DRS-5V50W1N☐	●			5.0 A	25 W		
		DRS-12V50W1N☐	●		12 V	4.0 A	48 W	85-264 V_{AC}	
		DRS-24V30W1AZ	●		24 V	1.25 A	30 W	85-264 V_{AC} (DC input range 120-375 V_{DC})	34
		DRS-24V30W1NZ	●			1.25 A	30 W		
		DRS-24V50W1N☐	●			2.1 A	50 W		
		DRS-24V100W1A☐	●	●		4.0 A	96 W		
		DRS-24V100W1N☐	●	●		3.8 A	91.2 W		

* DC input is certified for selected models

Model Numbering

DR	C –	XXV	XXXW	1	☐	☐
DIN Rail	**Product Type** C - Isolation Class II Power Supply	**Output Voltage**	**Output Power**	**Phase Input** 1 - Single Phase	A - No PFC C - AC & DC Input, no PFC H - Household approval	Z - Black plastic case G - Grey plastic case C - Black plastic case, with conformal coating [1]

1) Options for DRC-12V60W1A☐, DRC-24V60W1A☐ and DRC-24V100W1A☐ only

DR	S –	XXV	XXXW	1	☐	☐
DIN Rail	**Product Series** S - SYNC Series	**Output Voltage**	**Output Power**	**Phase Input** 1 - Single Phase	A - Non NEC Class 2 N - NEC Class 2	Z - Without DC OK Relay Contact R - With DC OK Relay Contact

Product Type	Series	Model Name	Phase 1	PFC	Output Voltage	Output Current	Output Power	Input Voltage Range	Page
Panel Mount Power Supplies	**PMT2** • IEC 60335, IEC 61558 approvals • Low profile 30 mm height	PMT-12V35W2BA☐	●		12 V	3.0 A	36 W	90-264 V_{AC}	37
		PMT-12V50W2BA☐	●			4.2 A	50.4 W		
		PMT-12V75W2BA☐	●			6.0 A	72 W		
		PMT-12V100W2BA☐	●			8.5 A	102 W		
		PMT-12V150W2BA☐	●			12.5 A	150 W	90-132 V_{AC}, 180-264 V_{AC} (Selectable by Switch)	38
		PMT-12V150W2CA☐	●			12.5 A	150 W	90-264 V_{AC}	
		PMT-12V200W2BM☐	●			17.0 A	204 W	90-132 V_{AC}, 180-264 V_{AC} (Selectable by Switch)	
		PMT-12V200W2BR☐	●			17.0 A	204 W		
		PMT-12V350W2BM☐	●			29.0 A	348 W		
		PMT-12V350W2BR☐	●			29.0 A	348 W		
		PMT-15V35W2BA	●		15 V	2.4 A	36 W	90-264 V_{AC}	39
		PMT-15V50W2BA	●			3.4 A	51 W		
		PMT-15V75W2BA	●			5.0 A	75 W		
		PMT-15V100W2BA	●			7.0 A	105 W	90-264 V_{AC}	40
		PMT-15V150W2BA	●			10.0 A	150 W	90-132 V_{AC}, 180-264 V_{AC} (Selectable by Switch)	
		PMT-15V150W2CA	●			10.0 A	150 W	90-264 V_{AC}	

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Product Type	Series	Model Name	Phase 1	PFC	Output Voltage	Output Current	Output Power	Input Voltage Range	Page
Panel Mount Power Supplies	**PMT2** • IEC 60335, IEC 61558 approvals • Low profile 30 mm height	PMT-24V35W2BA☐	●		24 V	1.5 A	36 W	90-264 V_{AC}	41
		PMT-24V50W2BA☐	●			2.2 A	52.8 W		
		PMT-24V75W2BA☐	●			3.2 A	76.8 W		
		PMT-24V100W2BA☐	●			4.5 A	108 W		
		PMT-24V150W2BA☐	●			6.25 A	150 W	90-132V_{AC}, 180-264V_{AC} (Selectable by Switch)	42
		PMT-24V150W2CA☐	●			6.25 A	150 W	90-264 V_{AC}	
		PMT-24V200W2BM☐	●			8.8 A	211.2 W	90-132V_{AC}, 180-264V_{AC} (Selectable by Switch)	
		PMT-24V200W2BR☐	●			8.8 A	211.2 W		
		PMT-24V350W2BM☐	●			14.6 A	350.4 W		
		PMT-24V350W2BR☐	●			14.6 A	350.4 W		
		PMT-30V35W2BA	●		30 V	1.2 A	36 W	90-264 V_{AC}	43
		PMT-30V50W2BA	●			1.7 A	51 W		
		PMT-30V75W2BA	●			2.5 A	75 W		
		PMT-30V100W2BA	●			3.6 A	108 W	90-264 V_{AC}	44
		PMT-30V150W2BA	●			5.0 A	150 W	90-132V_{AC}, 180-264V_{AC} (Selectable by Switch)	
		PMT-30V150W2CA	●			5.0 A	150 W	90-264 V_{AC}	
		PMT-36V35W2BA	●		36 V	1.0 A	36 W	90-264 V_{AC}	45
		PMT-36V50W2BA	●			1.45 A	52.2 W		
		PMT-36V75W2BA	●			2.1 A	75.6 W		
		PMT-36V100W2BA	●			3.0 A	108 W		
		PMT-36V150W2BA	●			4.3 A	154.8 W	90-132V_{AC}, 180-264V_{AC} (Selectable by Switch)	46
		PMT-36V150W2CA	●			4.3 A	154.8 W	90-264 V_{AC}	
		PMT-36V200W2BM	●			5.9 A	212.4 W	90-132V_{AC}, 180-264V_{AC} (Selectable by Switch)	
		PMT-36V200W2BR	●			5.9 A	212.4 W		
		PMT-36V350W2BM	●			9.7 A	349.2 W		
		PMT-36V350W2BR	●			9.7 A	349.2 W		
		PMT-48V35W2BA	●		48 V	0.8 A	38.4 W	90-264 V_{AC}	47
		PMT-48V50W2BA	●			1.1 A	52.8 W		
		PMT-48V75W2BA	●			1.6 A	76.8A		
		PMT-48V100W2BA	●			2.3 A	110.4 W		
		PMT-48V150W2BA	●			3.3 A	158.4 W	90-132V_{AC}, 180-264V_{AC} (Selectable by Switch)	48
		PMT-48V150W2CA	●			3.3 A	158.4 W	90-264 V_{AC}	
		PMT-48V200W2BM	●			4.4 A	211.2 W	90-132V_{AC}, 180-264V_{AC} (Selectable by Switch)	
		PMT-48V200W2BR	●			4.4 A	211.2 W		
		PMT-48V350W2BM	●			7.3 A	350.4 W		
		PMT-48V350W2BR	●			7.3 A	350.4 W		
		PMT-D1V75W2☐A	●		5 V/12 V	5.0A/4.0A	73 W	90-264 V_{AC}	49
		PMT-D2V75W2☐A	●		5 V/24 V	5.0 A/2.1 A	75.4 W		

Model Numbering

							CC Code
PM	**T –**	**XXV**	**XXXW**	**2**	**☐**	**☐**	**☐**
Panel Mount	**Product Type** T - Enclosed	**Output Voltage**	**Output Power**	Single Phase with Low Profile	**Family Code** For 35-100 W B - No PFC, universal input voltage range For 150-350 W B - No PFC, input voltage selectable by switch C - No PFC, universal input voltage range	**Connector Type** Terminal Block A - With TUV, UL, CE, CCC, KC, EAC M - With UL, EAC R - With TUV, UL, CE, EAC	Blank - Without connector cover B - With conformal coating [1]

PM	T –	XXV	XXXW	2	☐	A
Panel Mount	**Product Type** T - Enclosed	**Output Voltage** Dual Output D1 - 5 V / 12 V D2 - 5 V / 24 V	**Output Power**	Single Phase with Low Profile	**Family Code** B - No PFC, Non-Isolated C - No PFC, Isolated	**Connector Type** A - Terminal Block

1) Options for 12 V and 24 V models only

Product Selection Guide

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Product Type	Series	Model Name	Phase 1	PFC	Output Voltage	Output Current	Output Power	Input Voltage Range*	Page
Panel Mount Power Supplies	**PMC** • Universal AC input voltage	PMC-05V015W1AA	●		5 V	3.0 A	15 W	85-264 V_{AC} (DC input range 125-375 V_{DC})	50
		PMC-12V150W1B□	●	●	12 V	12.5 A	150 W	85-264 V_{AC} (DC input range 125-375 V_{DC})	
		PMC-12V600W1BA	●	●		50.0 A	600 W	85-264 V_{AC} (DC input range 120-370 V_{DC})	
		PMC-24V150W1B□	●	●	24 V	6.25 A	150 W	85-264 V_{AC} (DC input range 125-375 V_{DC})	51
		PMC-24V300W1BA	●	●		V1: 12.5 A $V2_{SB}$: 0.5 A	300 W		
		PMC-24V600W1BA	●	●		25.0 A	600 W	85-264 V_{AC} (DC input range 120-370 V_{DC})	
		PMC-24V600W1RW	●	●		25.0 A	600 W	85-264 V_{AC}	
		PMC-48V150W1BA	●	●	48 V	3.125 A	150 W	85-264 V_{AC} (DC input range 125-375 V_{DC})	52
		PMC-48V600W1BA	●	●		12.5 A	600 W	85-264 V_{AC} (DC input range 120-370 V_{DC})	
		PMC-DSPV100W1A	●		24 V/5 V	2.7 A/7.0 A	100 W	85-264 V_{AC} (DC input range 125-375 V_{DC})	
	PMR • Thickness < 1U • Built-in PFC	PMR-4V320WC□A	●	●	4.2 V	60.0 A	252 W	88-264 V_{AC}	53
		PMR-4V320WDAA□	●	●		60.0 A	252 W		
		PMR-4V320WDGA	●	●		60.0 A	252 W		
		PMR-4V320WDBA	●	●		60.0 A	252 W		
		PMR-4V320WDCA	●	●		60.0 A	252 W		
		PMR-5V320WC□A	●	●	5 V	60.0 A	300 W	88-264 V_{AC}	54
		PMR-5V320WDAA	●	●		60.0 A	300 W		
		PMR-5V320WDGA	●	●		60.0 A	300 W		
		PMR-5V320WDBA	●	●		60.0 A	300 W		
		PMR-5V320WDCA	●	●		60.0 A	300 W		
		NEW PMR-12V320W1AT	●	●	12 V	26.7 A	320.4 W	90-264 V_{AC}	55
		NEW PMR-24V320W1AT	●	●	24 V	13.4 A	321.6 W		
		NEW PMR-36V320W1AT	●	●	36 V	8.9 A	320.4 W	90-264 V_{AC}	56
		NEW PMR-48V320W1AT	●	●	48 V	6.7 A	321.6 W		

* DC input is certified for selected models

Model Numbering

PM	C –	XXV	XXXW	1	□	□
Panel Mount	**Product Type** C - Enclosed	**Output Voltage**	**Output Power**	**Phase Input** 1 - Single Phase, Wide Range Input Voltage	A - No PFC B - With PFC R - With PFC, Remote ON/OFF, Remote Sense	**Connector Type** A - Terminal Block [1] J - IP20 Connector [2] L - Front Face [2] W - Front Face with conformal coating

PM	C –	D	SPV	100W	1	A
Panel Mount	**Product Type** C - Enclosed	**Dual Output**	**Output Voltage** S - 24V P - 5V	**Output Power**	**Phase Input** 1 - Single Phase	A - Delta Standard

1) For PMC-05V015W1AA and PMC-□V600W1BA, the connector type is a Front Face connector.
For PMC-24V300W1BA, the connector type is an IP20 connector.
2) Options

PM	R –	XXV	XXXW	□	□	A
Panel Mount	**Product Series** R - Standard Rack Type Series (1U)	**Output Voltage**	**Output Power**	**Package Type** C - Enclosed with Fan D - Enclosed without Fan	**Connector Type** A - Terminal Block B - Terminal Block (Parallel Operation) [1] G - Front Face [2] C - Front Face (Parallel Operation) [1]	**Variable** A - With conformal coating

1) Options for Enclosed without Fan (PMR-□V320WDBA and PMR-□V320WDCA)
2) Options

PM	R –	XXV	XXXW	1	A	T
Panel Mount	**Product Series** R - Standard Rack Type Series (1U)	**Output Voltage**	**Output Power**	**Phase Input** 1 - Single Phase	**Family Code** A - Family A	**Connector Type** T - Terminal Block

New products are frequently introduced. Please visit www.DeltaPSU.com for latest product updates.

Product Type	Series	Model Name	Phase 1	PFC	Output Voltage	Output Current	Output Power	Input Voltage Range	Page
Panel Mount Power Supplies	**PMF** • Remote ON/OFF • Built-in PFC	PMF-4V320WC□□	●	●	4.2 V	55.0 A	231 W	88-264 V_{AC}	57
		PMF-5V320WC□□	●	●	5 V	55.0 A	275 W		
		PMF-24V240WC□□	●	●	24 V	10.0 A	240 W		
		PMF-24V320WC□□	●	●		13.3 A	320 W		
	PMU • Power supply with integrated DC-UPS	PMU-13V155W□BA	●		13.8 V	V1: 9.5 A B+: 1.5 A	151 W	90-132 V_{AC}, 180-264 V_{AC} (Selectable by Switch)	58
		PMU-13V155W□CA	●				151 W		
		PMU-27V155W□BA	●		27.6 V	Enclosed V1: 4.0 A, B+: 1.5 A	151 W		
		PMU-27V155W□CA	●			L Frame V1: 4.3 A, B+: 1.2 A	151 W		
	MEB • Intelligent Fan Speed Control	NEW MEB-750A12B AAA	●	●	12 V	58.4 A	750 W	85-264 V_{AC}	59
		NEW MEB-750A12T AAA	●	●		58.4 A	750 W		
		MEB-500A24F AA	●	●	24 V	21.0 A	500 W	90-264 V_{AC}	
		MEB-750A24B AAA	●	●		31.25 A	750 W	85-264 V_{AC}	
		MEB-750A24T AAA	●	●		31.25 A	750 W		
		MEB-750A48B AAA	●	●	48 V	15.63 A	750 W		
		MEB-750A48T AAA	●	●		15.63 A	750 W		
		MEB-1K2A24T ABA	●	●	24 V	50.0 A	1,200 W	85-264 V_{AC}	60
		MEB-1K2A42T ABA	●	●	42 V	28.5 A	1,200 W		
		MEB-1K2A48T ABA	●	●	48 V	25.0 A	1,200 W		

Model Numbering

PM	F –	XXV	XXXW	C	□	□
Panel Mount	**Product Series** F - PFC Series	**Output Voltage**	**Output Power**	**Package Type** C - Enclosed	**Connector Type** G - Front Face A - Terminal Block [1]	**Variable** B - No Remote ON/OFF R - With Remote ON/OFF [1]

1) Options

PM	U –	XXV	XXXW	□	□	A
Panel Mount	**Product Series** U - With DC-UPS Function	**Output Voltage**	**Output Power**	**Package Type** C - Enclosed L - L Frame [1]	**Signal** B - Without Signal C - With Signal	**Connector Type** A - Terminal Block

1) Options

ME	B –	XXX	A	□	□	□□□
Delta Medical Power Supply	B - Enclosed	**Max power wattage in the product series. May be lower at some conditions.**	**Family Code**	**Output Voltage**	**Input Connector Type**	**CC Code**
		500 - 500 W	A - Family A	24 - 24 V	F - Front Face	AA - With Remote ON/OFF, with conformal coating
		750 - 750 W		12 - 12 V 24 - 24 V 48 - 48 V	B - C14 T - US Terminal	AAA - With Remote ON/OFF, with conformal coating
		1K2 - 1,200 W		24 - 24 V 42 - 42 V 48 - 48 V	T - US Terminal	ABA - With Remote ON/OFF, with conformal coating

Product Selection Guide

New products are frequently introduced. Please visit www.DeltaPSU.com for latest product updates.

Product Type	Series	Model Name	Phase	PFC	Output Voltage	Convection		Forced Air		Input Voltage Range	Page
			1			Output Current	Output Power	Output Current	Output Power		
Open Frame Power Supplies	**PJT** • High efficiency • Small footprint	PJT-12V40WBA□	●		12 V	3.33 A	40 W			90-264 V_{AC}	63
		PJT-12V65WBA□	●			5.0 A	60 W				
		PJT-12V100WBA□	●	●		8.33 A	100 W				
		PJT-12V100WBB□	●			6.67 A	80 W	8.33 A	100 W		
		PJT-15V40WBA□	●		15 V	2.67 A	40 W			90-264 V_{AC}	64
		PJT-15V65WBA□	●			4.2 A	63 W				
		PJT-15V100WBA□	●	●		6.67 A	100 W				
		PJT-15V100WBB□	●			5.33 A	80 W	6.67 A	100 W		
		PJT-18V40WBA□	●		18 V	2.22 A	40 W			90-264 V_{AC}	65
		PJT-18V65WBA□	●			3.61 A	65 W				
		PJT-18V100WBA□	●	●		5.55 A	100 W				
		PJT-18V100WBB□	●			4.44 A	80 W	5.55 A	100 W		
		PJT-24V40WBA□	●		24 V	1.66 A	40 W			90-264 V_{AC}	66
		PJT-24V65WBA□	●			2.71 A	65 W				
		PJT-24V100WBA□	●	●		4.17 A	100 W				
		PJT-24V100WBB□	●			3.33 A	80 W	4.17 A	100 W		
		PJT-27V150WBNA	●	●	V1: 27 V V_{SB}: 12 V	V1: 5.55 A V_{SB}: 0.5 A	150 W			85-264 V_{AC}	
	PJ • Built-in PFC • Versatile configurations • Conformal coating	PJ-5V15W□NA	●		5 V	3.0 A	15 W			85-264 V_{AC}	67
		PJ-12V15W□NA	●		12 V	1.3 A	15.6 W				
		PJ-12V30W□NA	●			2.5 A	30 W				
		PJ-12V50W□NA	●	●		4.3 A	51.6 W			85-264 V_{AC}	68
		PJ-12V100W□□A	●	●		8.5 A	102 W				
		PJ-12V150W□□A	●	●		12.5 A	150 W				
		PJ-24V30W□NA	●		24 V	1.25 A	31.2 W			85-264 V_{AC}	69
		PJ-24V50W□NA	●	●		2.1 A	50.4 W				
		PJ-24V100W□□A	●	●		4.3 A	103.2 W			85-264 V_{AC}	70
		PJ-24V150W□□A	●	●		6.3 A	150 W				
		PJ-48V50W□NA	●	●	48 V	1.1 A	52.8 W				
	PJB • Power Boost up to 10 s • Conformal coating	PJB-24V100W□□A	●	●	24 V	4.3 A	103.2 W			85-264 V_{AC}	71
		PJB-24V150W□□A	●	●		6.3 A	151.2 W				
		PJB-24V240W□□□	●	●		10.0 A	240 W				
		PJB-24V300W□□□	●	●		12.5 A	300 W				

Model Numbering

PJ	T –	XXV	XXXW	B	□	□
Open Frame	**Product Series** T - ITE Application Series	**Output Voltage**	**Output Power**	**Package Type** B - Open Frame	A - Family Code B - Family Code N - No Remote ON/OFF	**Connector Type** A - JST connector B - Molex connector [1] C - JWT connector [1]

1) Options

PJ –	XXV	XXXW	□	□	A
Open Frame	**Output Voltage**	**Output Power**	**Package Type** B - Open Frame L - L Frame C - Enclosed	**Remote ON/OFF Function** N - No Remote ON/OFF R - With Remote ON/OFF [1]	A - Delta Standard

1) Options for 100 W and above

PJ	B –	XXV	XXXW	□	□	□
Open Frame	**Product Series** B - Power Boost Series	**Output Voltage**	**Output Power**	**Package Type** B - Open Frame L - L Frame C - Enclosed Green Mode [1] J - Open Frame H - L Frame G - Enclosed	**Remote ON/OFF Function** N - No Remote ON/OFF R - With Remote ON/OFF	**Connector Type** A - Harness J - IP20 [2]

1) Green Mode is available for 150 W only
2) For 240 W and 300 W only

New products are frequently introduced. Please visit www.DeltaPSU.com for latest product updates.

Product Type	Series	Model Name	Phase	PFC	Output Voltage	Output Current	Convection	Forced Air	Input Voltage Range	Page
			1				Output Power			
Open Frame Power Supplies	**PJH** • Household and ITE safety approvals	PJH-24V300WBB☐	●	●	V1: 24 V V_{SB}: 5 V	V1: 12.5 A V_{SB}: 1.2 A	240 W	300 W	90-264 V_{AC}	72
		PJH-24V300WBC☐	●	●	V1: 24 V V_{SB}: 12 V	V1: 12.5 A V_{SB}: 0.5 A	240 W	300 W		
		PJH-36V300WBB☐	●	●	V1: 36 V V_{SB}: 5 V	V1: 8.3 A V_{SB}: 1.2 A	240 W	300 W		
		PJH-36V300WBC☐	●	●	V1: 36 V V_{SB}: 12 V	V1: 8.3 A V_{SB}: 0.5 A	240 W	300 W		
	PJU • Power supply with integrated DC-UPS • Compact size	PJU-13V60W☐A☐	●		V1: 13.8 V B+: 13.6 V	V1: 3.9 A B+: 0.4 A	60 W		90-264 V_{AC}	73
		PJU-13V60W☐B☐	●			V1: 3.9 A B+: 0.4 A	60 W			
		PJU-27V60W☐A☐	●		V1: 27.6 V B+: 12.4 V	V1: 1.75 A B+: 0.4 A	60 W			
		PJU-27V60W☐B☐	●			V1: 1.75 A B+: 0.4 A	60 W			
	PJL • UL 8750, IEC/UL 60950-1, IEC/UL 62368-1 approvals • Low inrush current • LED lighting power solution	PJL-48V200WBAA	●	●	48 V	4.17 A	150 W	200 W	85-305 V_{AC}	74
		PJL-48V400WBAA	●	●		8.33 A	200 W	400 W		
		PJL-48V600WLAA	●	●		12.5 A	300 W	600 W		

Model Numbering

PJ	H –	XXV	XXXW	B	☐	☐
Open Frame	**Product Series** H - Household Series	**Output Voltage**	**Output Power**	**Package Type** B - Open Frame	**Voltage Standby** B - 5 V [1] C - 12 V	**Connector Type** A - JST connector B - Molex connector [1] C - JWT connector [1]

1) Options

PJ	U –	XXV	XXXW	☐	☐	☐
Open Frame	**Product Series** U - With DC-UPS Function	**Output Voltage**	**Output Power**	**Package Type** C - Enclosed L - L Frame [1] B - Open Frame [1]	**Signal** A - Without Signal [1] B - With Signal	**Connector Type** A - Terminal Block B - JST connector [1] C - Molex connector [1]

1) Options

PJ	L –	XXV	XXXW	☐	A	A
Open Frame	**Product Series** L - Lighting Application Series	**Output Voltage**	**Output Power**	**Package Type** B - Open Frame L - L Frame	A - Active PFC	A - TE connector

Product Selection Guide

New products are frequently introduced. Please visit www.DeltaPSU.com for latest product updates.

Product Type	Series	Model Name	Output Voltage	Output Current	Input Current	Input Voltage Range	Page
Redundancy Module	**CliQ II**	DRR-20A	22-60 V	20.0 A	(1+1 Redundancy) = Nominal 2 × 12.5 A (N+1 Redundancy) = Nominal 2 × 10 A	22-60 V_{DC}	77
		DRR-20N		20.0 A			
		DRR-40A		40.0 A	(1+1 Redundancy) = Nominal 2 × 25 A (N+1 Redundancy) = Nominal 2 × 20 A		
		DRR-40N		40.0 A			
Buffer Module	**CliQ II**	DRB-24V020AB☐	24 V	20.0 A	Charging Mode: < 0.6 A	22.8-28.8 V_{DC}	78
		DRB-24V040ABN		40.0 A	Charging Mode: < 0.6 A		
DC-UPS Module	**CliQ II**	DRU-24V40ABN	24 V	40.0 A	Charging Mode: 2.0 A ± 1.0 A	24-28 V_{DC}	79
	CHROME	DRU-24V10ACZ		10.0 A	Charging Mode: 0.5 A ± 0.1 A	24-28 V_{DC}	80
	CliQ M	NEW DRU-24V10AMN		10.0 A	0.5 A, 1 A, 1.5 A, 2 A (typ.) (constant current)	18-30 V_{DC}	81
		NEW DRU-24V20AMN		20.0 A	0.75 A, 1.5 A, 2.25 A, 3 A (typ.) (constant current)	18-30 V_{DC}	
		NEW DRU-24V40AMN		40.0 A	1 A, 2 A, 3 A, 4 A (typ.) (constant current)	18-30 V_{DC}	

Product Type	Series	Model Name	Nominal Voltage	Charging Current	Discharging Current	Page
Battery Module	**CliQ M**	NEW DRN-24V7AAEN	24 V	2.1 A Max	40.0 A Max	82

Model Numbering

DR	R –	XX	☐
DIN Rail	**Product Type** R - Redundancy Module	**Output Current** 20 - 20 A 40 - 40 A	A - Metal Case, with Class I, Div 2 N - Metal Case, without Class I, Div 2

DR	☐ –	24V	XXXA	☐	☐
DIN Rail	**Product Type** B - Buffer Module U - DC-UPS Module	**Output Voltage**	**Output Current**	B - CliQ II Series C - CHROME Series M - CliQ M Series	A - Metal Case, with Class I, Div 2 N - Metal Case, without Class I, Div 2 Z - Plastic Case, without Class I, Div 2

DR	N –	24V	XA	A	E	N
DIN Rail	**Product Type** N - Battery Module (without Battery)	**Input / Output Voltage**	**Capacity** 7A - 7.2 AH	A - Metal Frame	E- Lead Acid Battery	N - Without Class I, Div 2

New products are frequently introduced. Please visit www.DeltaPSU.com for latest product updates.

Product Type	Series	Model Name	CC Code	Output Voltage	Output Current	Output Power	Page
Adapter	**ADT** • Compact size • DoE Level VI and CoC Tier 2	ADT-060A12AA	B-A	12 V	5.0 A	60 W	84
		ADT-060A12AB	B-A		5.0 A	60 W	
		ADT-150B12AA	J-A		12.5 A	150 W	
		ADT-060A15AA	B-A	15 V	4.0 A	60 W	
		ADT-060A15AB	B-A		4.0 A	60 W	
		ADT-060A19AA	B-A	19 V	3.2 A	60.8 W	85
		ADT-060A19AB	B-A		3.2 A	60.8 W	
		ADT-120A19AA	M-A		6.15 A	120 W	
		ADT-150A19AA	G-A		7.7 A	150 W	
		ADT-060A24AA	B-A	24 V	2.5 A	60 W	86
		ADT-060A24AB	B-A		2.5 A	60 W	
		ADT-090A24AA	F-A		3.75 A	90 W	
		ADT-120A24AA	F-A		5.0 A	120 W	
		ADT-150A24AA	H-A		6.25 A	150 W	
		ADT-150C24AC	K-A		6.25 A	150 W	

Model Numbering

						CC Code	
ADT –	**XXX**	**□**	**□**	**A**	**□**	**□-**	**A**
Delta AC-DC Adapter	**Output Power** 060 - 60 W 090 - 90 W 120 - 120 W 150 - 150 W	**Family Code** A B C	**Output Voltage (Single Output)** 12 - 12 V 15 - 15 V 19 - 19 V 24 - 24 V	**Package Type** A - Desktop Adapter	**Input Connector Type** A - C6 B - C8 C - C14	**Output Connector** B - Tuning fork, 5.5 × 2.1 × 10 mm, 180° F - Tuning fork, 5.5 × 2.5 × 11 mm, 90° G - Barrel, 6 × 3.5 × 11.5 mm, 90° H - Tuning fork, 5.5 × 2.5 × 11 mm, 90° J - Barrel, 7.4 × 5.1 × 11 mm, 90° K - 4 pin DIN, 180° Lockable M - Tuning fork, 5.5 × 1.7 × 11 mm, 90°	A - Delta Standard

DIN Rail Power Supplies

CliQ II / CliQ III

CliQ II: Approvals for hazardous locations
CliQ III: Built-in constant current circuit for charging applications

Power Range: 60-960 W

CliQ M / CliQ VA

CliQ M: Approvals for maritime applications
CliQ VA: Integrated LCD display for outputs monitoring

Power Range: 80-960 W

Force-GT

Full load operating temperature up to 60°C

Power Range: 120-960 W

LYTE / LYTE II

Ultra slim form factor

Power Range: 75-480 W

CHROME / SYNC

CHROME: Class II Double Isolation
SYNC: Compact size

Power Range: 7.5-91.2 W

Applications

Building Automation | Process Automation | Factory Automation | Machine Automation | Renewable Energy | Test & Measurement

CliQ II (24 V)

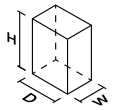
- Power will not de-rate for the entire input voltage range
- High Efficiency > 90.0% @ 230 V_{AC}
- Power Boost of 150% up to 5 s (480 W: 200% for 2 s)
- Full corrosion resistant aluminium casing
- Extreme low temperature cold start at -40°C
- Conformal coating on PCBAs to protect against common dust and pollutants
- Hazardous Locations approval to ATEX and Class I, Div 2

Applications

Process Automation | Factory Automation | Machine Automation | Renewable Energy

Output		DRP024V060W1B☐	DRP024V120W1B☐	DRP024V240W1B☐	DRP024V480W1B☐
Output Voltage		24 V	24 V	24 V	24 V
Output Voltage Range		24-28 V	24-28 V	24-28 V	24-28 V
Output Current		0-2.5 A	0-5.0 A	0-10.0 A	0-20.0 A
Output Power		60 W	120 W	240 W	480 W
PARD (20 MHz)		< 150 mVpp			
Hold-up Time	115 V_{AC}	> 20 ms		> 20 ms	
	230 V_{AC}	> 125 ms	> 115 ms		
Input					
Phase Input		Single Phase			
Input Voltage Range		85-264 V_{AC} (DC input range 120-375 V_{DC}) [1]			
Input Frequency		47-63 Hz			
Input Current	115 V_{AC}	< 1.4 A	< 2.2 A	< 2.5 A	< 5.0 A
	230 V_{AC}	< 0.8 A	< 1.1 A	< 1.3 A	< 3.0 A
Efficiency [2] at 100% Load	115 V_{AC}	> 90.0%	> 89.0%	> 90.0%	> 91.0%
	230 V_{AC}		> 90.0%	> 92.0%	
Max Inrush Current (Cold Start)	115 V_{AC}	< 20 A	< 35 A		
	230 V_{AC}	< 35 A			
Power Factor	115 V_{AC}	Conform to EN 61000-3-2		> 0.96	> 0.96
	230 V_{AC}			> 0.90	> 0.95
Leakage Current	240 V_{AC}	< 1 mA			< 3 mA
Mechanical					
Case Cover / Chassis		Aluminium			
Dimensions (H × W × D)	mm	121 × 32 × 125	121 × 50 × 123.1	121 × 85 × 124.1	121 × 144 × 118.6
	inch	4.76 × 1.26 × 4.92	4.76 × 1.97 × 4.85	4.76 × 3.35 × 4.89	4.76 × 5.67 × 4.67
Unit Weight	kg	0.37	0.72	1.10	1.37
	lb	0.82	1.59	2.43	3.02
Cooling System		Convection			
MTBF [3]		> 800,000 hrs		> 500,000 hrs	
Environment					
Operating Temperature [4]		-25°C to +80°C			-25°C to +75°C
Storage Temperature		-40°C to +85°C			
Operating Humidity		5 to 95% RH (Non-Condensing)			
Operating Altitude		0 to 2,500 m (0 to 8,200 ft)			

Dimensions Reference



Notes

1) All models fulfill the test conditions for this range. DC input safety approval can be obtained upon request. While DRP024V060W1B☐ is also certified for DC input.
2) At 25°C ambient temperature by vertical mounting orientation.
3) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 115 V_{AC}, O/P: 100% load) for vertical mounting orientation.
4) Refer power de-rating in the product datasheet.
5) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

CliQ (24 V)

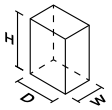
- Power will not de-rate for the entire input voltage range
- UL 1310 safety approval
- NEC Class 2 and Limited Power Source (LPS) approvals
- Conformal coating on PCBAs to protect against common dust and chemical pollutants
- Hazardous Locations approval to ATEX and Class I, Div 2 (DRP024V060W1NY)

Applications

Process Automation | Factory Automation | Machine Automation | Renewable Energy

Output		DRP024V060W1N□	DRP-24V100W1NN
Output Voltage		24 V	24 V
Output Voltage Range		22-28 V	22-24 V
Output Current		0-2.5 A	0-3.8 A
Output Power		60 W	91.2 W
PARD (20 MHz)		< 240 mVpp	< 150 mVpp
Hold-up Time	115 V_{AC}	> 20 ms	> 20 ms
	230 V_{AC}	> 125 ms	> 30 ms
Input			
Phase Input		Single Phase	
Input Voltage Range		85-264 V_{AC} (DC input range 120-375 V_{DC}) [1]	
Input Frequency		47-63 Hz	
Input Current	115 V_{AC}	< 1.50 A	< 1.00 A
	230 V_{AC}	< 0.80 A	< 0.53 A
Efficiency [2] at 100% Load	115 V_{AC}	> 89.0%	> 88.0%
	230 V_{AC}		> 89.0%
Max Inrush Current (Cold Start)	115 V_{AC}	< 40 A	< 30 A
	230 V_{AC}	< 80 A	< 60 A
Power Factor	115 V_{AC}	Conform to EN 61000-3-2	> 0.99
	230 V_{AC}		> 0.94
Leakage Current	240 V_{AC}	< 0.5 mA	
Mechanical			
Case Cover / Chassis		Plastic	Aluminium
Dimensions (H × W × D)	mm	120.6 × 32 × 119.3	124 × 40 × 124
	inch	4.75 × 1.26 × 4.70	4.88 × 1.57 × 4.88
Unit Weight	kg	0.33	0.60
	lb	0.73	1.32
Cooling System		Convection	
MTBF [3]		> 800,000 hrs	
Environment			
Operating Temperature [4]		-25°C to +80°C	
Storage Temperature		-40°C to +85°C	
Operating Humidity		5 to 95% RH (Non-Condensing)	
Operating Altitude		0 to 2,500 m (0 to 8,200 ft)	

Dimensions Reference



Notes
1) All models fulfill the test conditions for this range. DC input safety approval can be obtained upon request.
2) At 25°C ambient temperature by vertical mounting orientation.
3) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 115 V_{AC}, O/P: 100% load) for vertical mounting orientation.
4) Refer power de-rating in the product datasheet.
5) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

CliQ (24 V)

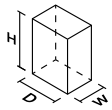
- Designed for single phase input 180-305 V_{AC} (L-N) or 2 of 3-Phase system 2 x 180-550 V_{AC} (L-L) or 254-780 V_{DC}
- Compact and corrosion resistant aluminium casing
- High Efficiency > 90.0%
- Wide operating temperature range from -30°C to +70°C
- Built-in DC OK contact
- Conformal coating on PCBAs to protect against common dust and pollutants

Applications

Process Automation | Factory Automation | Machine Automation | Renewable Energy

Output		DRP-24V120W2BN	DRP-24V240W2BN
Output Voltage		24 V	24 V
Output Voltage Range		24-28 V	24-28 V
Output Current		0-5.0 A	0-10.0 A
Output Power		120 W	240 W
PARD (20 MHz)		< 150 mVpp	< 150 mVpp @ -10°C and above < 200 mVpp @ below -10°C
Hold-up Time	2 × 230 V_{AC}	> 10 ms	> 18 ms
	2 × 400 V_{AC}	> 50 ms	> 30 ms
Input			
Phase Input		Single Phase or Two Phase	
Input Voltage Range		2 × 180-550 V_{AC} or 180-305 V_{AC} (Single Phase) (DC input range 254-780 V_{DC}) [1]	
Input Frequency		47-63 Hz	
Input Current	2 × 230 V_{AC}	< 1.20 A	< 2.00 A
	2 × 400 V_{AC}	< 0.80 A	< 1.00 A
Efficiency [2] at 100% Load	2 × 400 V_{AC}	> 90.0%	
Max Inrush Current (Cold Start)	2 × 200 V_{AC}	< 50 A	
	2 × 500 V_{AC}		
Power Factor	2 × 230 V_{AC}	Conform to EN 61000-3-2	
	2 × 400 V_{AC}		
Leakage Current	500 V_{AC}	< 1 mA	< 3.5 mA
Mechanical			
Case Cover / Chassis		Aluminium	
Dimensions (H × W × D)	mm	124 × 40 × 117	124 × 60 × 117
	inch	4.88 × 1.57 × 4.61	4.88 × 2.36 × 4.61
Unit Weight	kg	0.62	0.81
	lb	1.37	1.79
Cooling System		Convection	
MTBF [3]		> 800,000 hrs	> 500,000 hrs
Environment			
Operating Temperature [4]		-30°C to +70°C	
Storage Temperature		-40°C to +85°C	
Operating Humidity		5 to 95% RH (Non-Condensing)	
Operating Altitude		Industrial Application: 0 to 2,000 m (0 to 6,560 ft); ITE Application: 0 to 2,500 m (0 to 8,200 ft)	

Dimensions Reference



Notes
1) All models are certified for DC input.
2) At 25°C ambient temperature by vertical mounting orientation.
3) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 2 × 200 V_{AC}, O/P: 100% load) for vertical mounting orientation.
4) Refer power de-rating in the product datasheet.
5) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

CliQ (24 V)

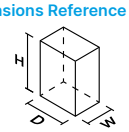
- Power will not de-rate for the entire input voltage range
- Power Boost of 150% up to 5 s (480 W: 200% for 2 s)
- Full corrosion resistant aluminium casing
- Extreme low temperature cold start at -40°C
- Conformal coating on PCBAs to protect against common dust and pollutants
- Hazardous Locations approval to ATEX and Class I, Div 2 (except DRP024V960W3BN)

Applications

Process Automation | Factory Automation | Machine Automation | Renewable Energy

Output		DRP024V060W3B□	DRP024V120W3B□	DRP024V240W3B□	DRP024V480W3B□	DRP024V960W3BN
Output Voltage		24 V	24 V	24 V	24 V	24 V
Output Voltage Range		24-28 V	24-28 V	24-28 V	24-28 V	24-28 V
Output Current		0-2.5 A	0-5.0 A	0-10.0 A	0-20.0 A	0-40.0 A
Output Power		60 W	120 W	240 W	480 W	960 W
PARD (20 MHz)		< 150 mVpp				< 240 mVpp
Hold-up Time	3 × 400 V_{AC}	> 20 ms			> 20 ms	
	3 × 500 V_{AC}	> 40 ms				
Input						
Phase Input		Two Phase or Three Phase				
Input Voltage Range (Does not exceed 600 V_{AC})		3 × 320-600 V_{AC} or 2 × 360-600 V_{AC} (DC input range 450-800 V_{DC}) [1]				3 × 320-600 V_{AC} or 2 × 380-600 V_{AC} (DC input range 450-800 V_{DC}) [1]
Input Frequency		47-63 Hz				
Input Current	3 × 400 V_{AC}	< 0.30 A	< 0.50 A	< 0.75 A	< 1.00 A	< 1.70 A
	3 × 500 V_{AC}	< 0.25 A	< 0.40 A	< 0.65 A	< 0.75 A	< 1.40 A
Efficiency [2] at 100% Load	3 × 400 V_{AC}	> 86.0%	> 88.0%	> 91.0%		> 92.0%
	3 × 500 V_{AC}					
Max Inrush Current (Cold Start) [3]	3 × 400 V_{AC}	< 30 A		< 40 A	< 50 A	< 60 A
	3 × 500 V_{AC}					
Power Factor	3 × 400 V_{AC}	Conform to EN 61000-3-2			> 0.95	> 0.95
	3 × 500 V_{AC}				> 0.94	> 0.94
Leakage Current	3 × 500 V_{AC}	< 3.5 mA				
Mechanical						
Case Cover / Chassis		Aluminium				
Dimensions (H × W × D)	mm	121 × 50 × 117.3	121 × 50 × 117.3	121 × 70 × 117.3	121 × 140 × 117.3	121 × 255 × 117.3
	inch	4.76 × 1.97 × 4.62	4.76 × 1.97 × 4.62	4.76 × 2.76 × 4.62	4.76 × 5.51 × 4.62	4.76 × 10.0 × 4.62
Unit Weight	kg	0.66	0.66	0.89	1.35	2.60
	lb	1.46	1.46	1.96	2.98	5.73
Cooling System		Convection				
MTBF [4]		> 800,000 hrs		> 500,000 hrs		> 300,000 hrs
Environment						
Operating Temperature [5]		-25°C to +80°C				-25°C to +65°C
Storage Temperature		-40°C to +85°C				
Operating Humidity		5 to 95% RH (Non-Condensing)				
Operating Altitude		Industrial Application: 0 to 2,000 m (0 to 6,560 ft); ITE Application: 0 to 2,500 m (0 to 8,200 ft)				

Dimensions Reference



Notes

1) All models fulfill the test conditions for this range. DC input safety approval can be obtained upon request. While DRP024V480W3B□ and DRP024V960W3B□ are also certified for DC input.
2) At 25°C ambient temperature by vertical mounting orientation.
3) AC Source capability up to 3 kVA.
4) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 3 × 400 V_{AC}, O/P: 100% load) for vertical mounting orientation.
5) Refer power de-rating in the product datasheet.
6) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

CliQ II (48 V)

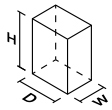
- Power will not de-rate for the entire input voltage range
- High Efficiency > 91.0% @ 230 V_{AC}
- Power Boost of 150% up to 5 s
- Full corrosion resistant aluminium casing
- Extreme low temperature cold start at -40°C
- Conformal coating on PCBAs to protect against common dust and pollutants
- Hazardous Locations approval to ATEX and Class I, Div 2

Applications

Process Automation | Factory Automation | Machine Automation | Renewable Energy

Output		DRP048V060W1B□	DRP048V120W1B□	DRP048V240W1B□	DRP048V480W1B□
Output Voltage		48 V	48 V	48 V	48 V
Output Voltage Range		48-56 V	48-56 V	48-56 V	48-56 V
Output Current		0-1.25 A	0-2.5 A	0-5.0 A	0-10.0 A
Output Power		60 W	120 W	240 W	480 W
PARD (20 MHz)		< 200 mVpp			
Hold-up Time	115 V_{AC}	> 20 ms		> 20 ms	
	230 V_{AC}	> 125 ms	> 50 ms		
Input					
Phase Input		Single Phase			
Input Voltage Range		85-264 V_{AC} (DC input range 120-375 V_{DC}) [1]			
Input Frequency		47-63 Hz			
Input Current	115 V_{AC}	< 1.4 A	< 2.2 A	< 2.5 A	< 5.0 A
	230 V_{AC}	< 0.8 A	< 1.1 A	< 1.3 A	< 3.0A
Efficiency [2] at 100% Load	115 V_{AC}	> 91.0%	> 90.0%		> 91.0%
	230 V_{AC}	> 92.0%	> 91.0%	> 92.0%	> 93.0%
Max Inrush Current (Cold Start)	115 V_{AC}	< 20 A	< 35 A		
	230 V_{AC}	< 35 A			
Power Factor	115 V_{AC}	Conform to EN 61000-3-2	> 0.99	> 0.96	
	230 V_{AC}		> 0.93	> 0.90	
Leakage Current	240 V_{AC}	< 1 mA			< 3 mA
Mechanical					
Case Cover / Chassis		Aluminium			
Dimensions (H × W × D)	mm	121 × 32 × 125	121 × 50 × 123.1	121 × 85 × 124.1	121 × 144 × 118.6
	inch	4.76 × 1.26 × 4.92	4.76 × 1.97 × 4.85	4.76 × 3.35 × 4.86	4.76 × 5.67 × 4.67
Unit Weight	kg	0.38	0.72	0.96	1.37
	lb	0.84	1.59	2.12	3.02
Cooling System		Convection			
MTBF [3]		> 800,000 hrs		> 500,000 hrs	
Environment					
Operating Temperature [4]		-25°C to +80°C			-25°C to +75°C
Storage Temperature		-40°C to +85°C			
Operating Humidity		5 to 95% RH (Non-Condensing)			
Operating Altitude		0 to 2,500 m (0 to 8,200 ft)			

Dimensions Reference



Notes
1) All models fulfill the test conditions for DC input. DC input safety approval can be obtained upon request.
2) At 25°C ambient temperature by vertical mounting orientation.
3) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 115 V_{AC}, O/P: 100% load) for vertical mounting orientation.
4) Refer power de-rating in the product datasheet.
5) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

CliQ III (24 V)

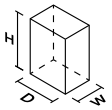
- Built-in constant current circuit for charging applications
- High efficiency of up to 94% at 230 V_{AC}
- Power Boost of 150% up to 5 s
- SEMI F47 compliance at 120 V_{AC}
- Extreme low temperature cold start at -40°C
- Built-in DC OK Contact and LED indicator for DC OK
- Conformal coating on PCBA to protect against common dust and pollutants

Applications

Building Automation | Process Automation | Factory Automation | Machine Automation | Renewable Energy

Output		DRP-24V120W1C□N	DRP-24V240W1C□N	DRP-24V480W1C□N
Output Voltage		24 V	24 V	24 V
Output Voltage Range		24-28 V	24-28 V	24-28 V
Output Current		0-5.0 A	0-10.0 A	0-20.0 A
Output Power		120 W	240 W	480 W
PARD (20 MHz)		< 100 mVpp		
Hold-up Time	115 V_{AC}	> 20 ms		> 15 ms
	230 V_{AC}			
Input				
Phase Input		Single Phase		
Input Voltage Range		DRP-24V□W1CAN: 88-264 V_{AC} DRP-24V□W1CBN: 88-264 V_{AC} (DC input range 88-375 V_{DC}) [1]		
Input Frequency		47-63 Hz		
Input Current	115 V_{AC}	< 1.4 A	< 2.6 A	< 5.0 A
	230 V_{AC}	< 0.7 A	< 1.3 A	< 2.5 A
Efficiency [2] at 100% Load	115 V_{AC}	> 89.5%	> 91.0%	> 92.0%
	230 V_{AC}	> 91.0%	> 93.0%	
Max Inrush Current (Cold Start)	115 V_{AC}	< 35 A	< 33 A	< 40 A
	230 V_{AC}	< 70 A	< 65 A	< 80 A
Power Factor	115 V_{AC}	> 0.96	> 0.99	
	230 V_{AC}	> 0.93	> 0.93	> 0.95
Leakage Current (264 V_{AC}, 50 Hz)	TT/TN	< 0.47 mA	< 0.74 mA	< 1.12 mA
	IT	< 1.20 mA	< 2.00 mA	< 2.55 mA
Mechanical				
Case Cover / Chassis		Aluminium		
Dimensions (H × W × D)	mm	124 × 40 × 117	124 × 60 × 117	124 × 82 × 127
	inch	4.88 × 1.57 × 4.61	4.88 × 2.36 × 4.61	4.88 × 3.23 × 5.00
Unit Weight	kg	0.58	0.84	1.20
	lb	1.28	1.85	2.65
Cooling System		Convection		
MTBF [3]		> 1,411,300 hrs	> 1,366,200 hrs	> 1,041,600 hrs
Environment				
Operating Temperature [4]		-25°C to +70°C		
Storage Temperature		-40°C to +85°C		
Operating Humidity		5 to 95% RH (Non-Condensing)		
Operating Altitude		0 to 5,000 m (0 to 16,400 ft)		

Dimensions Reference



Notes
1) All models are certified for DC input.
2) At 25°C ambient temperature by vertical mounting orientation.
3) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 115 V_{AC}, O/P: 100% load) for vertical mounting orientation.
4) Refer power de-rating in the product datasheet.
5) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

CliQ M (24 V)

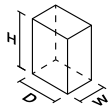
- High power density in corrosion resistant aluminium casing
- Power Boost of 150% up to 7 s
- Advanced Power Boost (APB)
- DNV GL and ABS approvals for maritime applications
- Extreme low temperature cold start at -40°C
- Built-in DC OK contact and LED indicator for DC OK/ Overload
- Conformal coating on PCBAs to protect against common dust and chemical pollutants

Applications

Process Automation | Factory Automation | Machine Automation | Renewable Energy

Output		DRM-24V80W1PN	DRM-24V120W1PN	DRM-24V240W1PN	DRM-24V480W1PN	DRM-24V960W1PN
Output Voltage		24 V	24 V	24 V	24 V	24 V
Output Voltage Range		24-28 V	24-28 V	24-28 V	24-28 V	24-28 V
Output Current		3.4-3.0 A	5.0-4.5 A	10.0-9.0 A	20.0-17.0 A	40.0-34.3 A
Output Power		81.6 W	120 W	240 W	480 W	960 W
PARD (20 MHz)		< 50 mVpp			< 100 mVpp	
Hold-up Time	120 V_{AC}	> 35 ms	> 34 ms	> 28 ms	> 30 ms	> 23 ms
	230 V_{AC}	> 70 ms	> 65 ms			
Input						
Phase Input		Single Phase				
Input Voltage Range		85-276 V_{AC} (DC input range 88-375 V_{DC}) [1]	85-264 V_{AC} (DC input range 88-375 V_{DC}) [1]	85-276 V_{AC} (DC input range 88-375 V_{DC}) [1]		85-264 V_{AC}
Input Frequency		47-63 Hz				
Input Current	120 V_{AC}	< 0.90 A	< 1.12 A	< 2.26 A	< 4.60 A	< 10.10 A
	230 V_{AC}	< 0.60 A	< 0.62 A	< 1.25 A	< 2.50 A	< 6.00 A
Efficiency [2] at 100% Load	120 V_{AC}	> 90.1%	> 91.6%	> 92.6%	> 92.2%	> 93.6%
	230 V_{AC}	> 90.0%	> 92.7%	> 93.5%	> 93.4%	> 94.6%
Max Inrush Current (Cold Start)	120 V_{AC}	< 7 A	< 15 A	< 10 A	< 13 A	< 13 A
	230 V_{AC}	< 13 A				< 20 A
Power Factor	120 V_{AC}	> 0.95	> 0.99	> 0.98	> 0.92	> 0.97
	230 V_{AC}	> 0.80	> 0.91	> 0.92	> 0.87	> 0.95
Leakage Current (264 V_{AC}, 50 Hz)	TT/TN	< 0.36 mA	< 0.45 mA	< 0.74 mA	< 0.80 mA	< 1.18 mA
	IT	< 0.95 mA	< 1.08 mA	< 1.29 mA	< 2.00 mA	< 2.82 mA
Mechanical						
Case Cover / Chassis		Aluminium				
Dimensions (H × W × D)	mm	124 × 32 × 102	124 × 40 × 117	124 × 60 × 117	124 × 82 × 127	124 × 125 × 133.6
	inch	4.88 × 1.26 × 4.02	4.88 × 1.57 × 4.61	4.88 × 2.36 × 4.61	4.88 × 3.23 × 5.00	4.88 × 4.92 × 5.26
Unit Weight	kg	0.50	0.63	0.94	1.40	2.87
	lb	1.10	1.39	2.07	3.09	6.33
Cooling System		Convection				
MTBF [3]		> 2,000,000 hrs	> 1,800,000 hrs	> 1,400,000 hrs	> 778,800 hrs	> 513,800 hrs
Environment						
Operating Temperature [4]		-25°C to +70°C				
Storage Temperature		-40°C to +85°C				
Operating Humidity		5 to 95% RH (Non-Condensing)				
Operating Altitude		0 to 5,000 m (0 to 16,400 ft); IEC/EN 61558: 0 to 2,500 m (0 to 8,200 ft)				

Dimensions Reference



Notes
1) All models are certified for DC input. DC input is not applicable for DRM-24V960W1PN.
2) At 25°C ambient temperature by vertical mounting orientation.
3) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 100 V_{AC}, O/P: 100% load) for vertical mounting orientation.
4) Refer power de-rating in the product datasheet.
5) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

CliQ M (24 V)

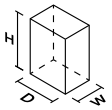
- Built-in constant current circuit for charging applications
- Full power from -25°C to +60°C @ 5,000 m (16,400 ft)
- Power Boost of 150% up to 7 s
- Advanced Power Boost (APB)
- DNV GL and ABS approvals for maritime applications
- Built-in DC OK Contact and LED indicator for DC OK/ Overload
- Conformal coating on PCBAs to protect against common dust and chemical pollutants

Applications

Process Automation | Factory Automation | Machine Automation | Renewable Energy

Output		DRM-24V480W3PN	DRM-24V960W3PN
Output Voltage		24 V	24 V
Output Voltage Range		24-28 V	24-28 V
Output Current		20.0-17.1 A	40.0-34.3 A
Output Power		480 W	960 W
PARD (20 MHz)		< 100 mVpp	< 100 mVpp
Hold-up Time	3 × 400 V_{AC}	> 18 ms	> 20 ms
	3 × 500 V_{AC}		
Input			
Phase Input		Two or Three Phase	
Input Voltage Range		3 × 320-575 V_{AC} or 2 × 380-575 V_{AC} (DC input range 450-800 V_{DC}) [1]	
Input Frequency		47-63 Hz	
Input Current	3 × 400 V_{AC}	< 0.79 A	< 1.65 A
	3 × 500 V_{AC}	< 0.68 A	< 1.35 A
Efficiency [2] at 100% Load	3 × 400 V_{AC}	> 95.0%	> 95.3%
	3 × 500 V_{AC}	> 94.8%	> 95.2%
Max Inrush Current (Cold Start)	3 × 400 V_{AC}	< 10 A	< 14.2 A
	3 × 500 V_{AC}		< 17.7 A
Power Factor	3 × 400 V_{AC}	> 0.93	> 0.90
	3 × 500 V_{AC}	> 0.88	
Leakage Current (3 × 528 V_{AC}, 60 Hz)	TT/TN	< 1.30 mA	< 0.95 mA
	IT		< 1.20 mA
Mechanical			
Case Cover / Chassis		Aluminium	
Dimensions (H × W × D)	mm	124 × 65 × 127.1	124 × 110 × 128.6
	inch	4.88 × 2.56 × 5.00	4.88 × 4.33 × 5.06
Unit Weight	kg	1.18	2.30
	lb	2.60	5.07
Cooling System		Convection	
MTBF [3]		> 750,000 hrs	> 568,300 hrs
Environment			
Operating Temperature [4]		-25°C to +70°C	
Storage Temperature		-40°C to +85°C	
Operating Humidity		5 to 95% RH (Non-Condensing)	
Operating Altitude [5]		0 to 5,000 m (0 to 16,400 ft)	

Dimensions Reference



Notes
1) All models fulfill the test conditions for this range. DC input safety approval can be obtained upon request.
2) At 25°C ambient temperature by vertical mounting orientation.
3) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 3 x 400 V_{AC}, O/P: 100% load) for vertical mounting orientation.
4) Refer power de-rating in the product datasheet.
5) According to IEC/EN 62368-1, IEC/EN 61010.
6) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

CliQ M (24 V)

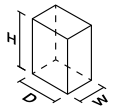
- SIL3 approval for SIS Functional Safety
- Droop method current sharing
- Active Redundant circuit O-Ring MOSFET
- Power Boost of 150% up to 5 s
- Advanced Power Boost (APB)
- Built-in DC OK contact and LED indicator for DC OK/ Overload
- Conformal coating on PCBAs to protect against common dust and chemical pollutants

Applications

Process Automation | Factory Automation | Machine Automation | Renewable Energy

		COMING SOON
Output		**DRM-24V480W1SN**
Output Voltage		24 V
Output Voltage Range		24-28 V
Output Current		20.0-17.0 A
Output Power		480 W
PARD (20 MHz)		< 120 mVpp
Hold-up Time	120 V_{AC}	> 32 ms
	230 V_{AC}	
Input		
Phase Input		Single Phase
Input Voltage Range		85-276 V_{AC} (DC input range 88-375 V_{DC}) [1]
Input Frequency		47-63 Hz
Input Current	120 V_{AC}	< 4.56 A
	230 V_{AC}	< 2.48 A
Efficiency [2] at 100% Load	120 V_{AC}	> 92.4%
	230 V_{AC}	> 93.4%
Max Inrush Current (Cold Start)	120 V_{AC}	< 13 A
	230 V_{AC}	
Power Factor	120 V_{AC}	> 0.95
	230 V_{AC}	> 0.90
Leakage Current (264 V_{AC}, 50 Hz)	TT/TN	< 1.10 mA
	IT	< 1.20 mA
Mechanical		
Case Cover / Chassis		Aluminium
Dimensions (H × W × D)	mm	124 × 82 × 127
	inch	4.88 × 3.23 × 5.00
Unit Weight	kg	1.40
	lb	3.09
Cooling System		Convection
MTBF [3]		> 864,600 hrs
Environment		
Operating Temperature [4]		-25°C to +70°C
Storage Temperature		-40°C to +85°C
Operating Humidity		5 to 95% RH (Non-Condensing)
Operating Altitude [5]		0 to 5,000 m (0 to 16,400 ft)

Dimensions Reference



Notes
1) All models are certified for DC input.
2) At 25°C ambient temperature by vertical mounting orientation.
3) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 100 V_{AC}, O/P: 100% load) for vertical mounting orientation.
4) Refer power de-rating in the product datasheet.
5) According to IEC/EN 62368-1, IEC/EN 61010.
6) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

CliQ VA (24 V)

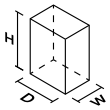
- LCD display monitoring the output current / voltage / peak current and temperature
- Life time expectancy alarm signal and monitoring
- Built-in active PFC with up to 94% efficiency
- Power Boost of 150% up to 7 s
- Advanced Power Boost (APB)
- DC OK Contact and LED indicator for DC OK/ Overload
- Conformal coating on PCBAs to protect against common dust and chemical pollutants

Applications

Process Automation | Factory Automation | Machine Automation | Renewable Energy

Output		DRV-24V120W1PN	DRV-24V240W1PN	DRV-24V480W1PN
Output Voltage		24 V	24 V	24 V
Output Voltage Range		24-28 V	24-28 V	24-28 V
Output Current		5.0-4.28 A	10.0-8.57 A	20.0-17.0 A
Output Power		120 W	240 W	480 W
PARD (20 MHz)		< 50 mVpp	< 50 mVpp	< 100 mVpp
Hold-up Time	120 V_{AC}	> 34 ms	> 28 ms	> 30 ms
	230 V_{AC}	> 65 ms		
Input				
Phase Input		Single Phase		
Input Voltage Range		85-264 V_{AC} (DC input range 88-375 V_{DC}) [1]	85-276 V_{AC} (DC input range 88-375 V_{DC}) [1]	
Input Frequency		47-63 Hz		
Input Current	120 V_{AC}	< 1.13 A	< 2.22 A	< 4.60 A
	230 V_{AC}	< 0.63 A	< 1.21 A	< 2.50 A
Efficiency [2] at 100% Load	120 V_{AC}	> 90.3%	> 92.6%	> 92.2%
	230 V_{AC}	> 91.2%	> 93.5%	> 93.4%
Max Inrush Current (Cold Start)	120 V_{AC}	< 15 A	< 10 A	< 13 A
	230 V_{AC}			
Power Factor	120 V_{AC}	> 0.99	> 0.98	> 0.92
	230 V_{AC}	> 0.91	> 0.92	> 0.87
Leakage Current (264 V_{AC}, 50 Hz)	TT/TN	< 0.45 mA	< 0.74 mA	< 0.80 mA
	IT	< 1.08 mA	< 2.10 mA	< 2.00 mA
Mechanical				
Case Cover / Chassis		Aluminium & Plastic / Aluminium		
Dimensions (H × W × D)	mm	124 × 60 × 139	124 × 60 × 139	124 × 82 × 149
	inch	4.88 × 2.36 × 5.47	4.88 × 2.36 × 5.47	4.88 × 3.23 × 5.87
Unit Weight	kg	0.75	1.02	1.45
	lb	1.65	2.25	3.20
Cooling System		Convection		
MTBF [3]		> 1,444,000 hrs	> 1,268,000 hrs	> 751,100 hrs
Environment				
Operating Temperature [4]		-25°C to +70°C		
Storage Temperature		-40°C to +85°C		
Operating Humidity		5 to 95% RH (Non-Condensing)		
Operating Altitude		0 to 5,000 m (0 to 16,400 ft)		

Dimensions Reference



Notes
1) All models are certified for DC input.
2) At 25°C ambient temperature by vertical mounting orientation.
3) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 100 V_{AC}, O/P: 100% load) for vertical mounting orientation.
4) Refer power de-rating in the product datasheet.
5) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

FORCE-GT (12V, 24V, 48V)

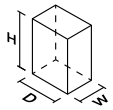
- Built-in constant current circuit for charging applications
- Full load operating temperature up to 60°C
- Cold start at -40°C
- Ultra-Slim design
- Long life electrolytic capacitor
- Built-in DC OK relay and LED indicator
- Conformal coating on PCBAs to protect against common dust and pollutants

Applications

Process Automation | Factory Automation | Machine Automation | Renewable Energy

		NEW	NEW	NEW
Output		**DRF-12V120W1GBA**	**DRF-12V240W1GBA**	**DRF-24V120W1GBA**
Output Voltage		12 V	12 V	24 V
Output Voltage Range		12-14 V	12-14 V	24-28 V
Output Current		0-10.0 A	0-20.0 A	0-5.0 A
Output Power		120 W	240 W	120 W
PARD (20 MHz)		< 100 mVpp @ 0°C~70°C		
		< 300 mVpp @ -30°C~0°C		
Hold-up Time	115 V_{AC}	35 ms typ.	30 ms typ.	35 ms typ.
	230 V_{AC}			
Input				
Phase Input		Single Phase		
Input Voltage Range		90-264 V_{AC}		
Input Frequency		47-63 Hz		
Input Current	115 V_{AC}	1.2 A typ.	2.5 A typ.	1.2 A typ.
	230 V_{AC}	0.6 A typ.	1.3 A typ.	0.6 A typ.
Efficiency [2] at 100% Load	230 V_{AC}	93.0% typ.	93.5% typ.	
Max Inrush Current (Cold Start)	230 V_{AC}	40 A typ.		
Power Factor	115 V_{AC}	> 0.95	> 0.96	> 0.95
	230 V_{AC}	> 0.92	> 0.93	> 0.92
Leakage Current	240 V_{AC}	< 0.5 mA		
Mechanical				
Case Cover / Chassis		Metal		
Dimensions (H × W × D)	mm	123.6 × 30 × 116.8	123.6 × 40 × 116.8	123.6 × 30 × 116.8
	inch	4.87 × 1.18 × 4.60	4.87 × 1.57 × 4.60	4.87 × 1.18 × 4.60
Unit Weight	kg	0.50	0.64	0.50
	lb	1.10	1.41	1.10
Cooling System		Convection		
MTBF [3]		> 700,000 hrs		
Environment				
Operating Temperature [4]		-30°C to +70°C		
Storage Temperature		-40°C to +85°C		
Operating Humidity		5 to 90% RH (Non-Condensing)		
Operating Altitude		0 to 5,000 m (0 to 16,400 ft)		

Dimensions Reference



Notes
1) At 25°C ambient temperature by vertical mounting orientation.
2) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 115 V_{AC} & 230 V_{AC}, O/P: 100% load) for vertical mounting orientation.
3) Refer power de-rating in the product datasheet.
4) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

NEW	NEW	NEW	NEW	NEW
DRF-24V240W1GBA	DRF-24V480W1GBA	DRF-48V120W1GBA	DRF-48V240W1GBA	DRF-48V480W1GBA
24 V	24 V	48 V	48 V	48 V
24-28 V	24-28 V	48-55 V	48-55 V	48-55 V
0-10.0 A	0-20.0 A	0-2.5 A	0-5.0 A	0-10.0 A
240 W	480 W	120 W	240 W	480 W
< 100 mVpp @ 0°C~70°C		< 120 mVpp @ 0°C~70°C	< 150 mVpp @ 0°C~70°C	150 mVpp typ. @ 0°C~70°C
< 300 mVpp @ -30°C~0°C		< 360 mVpp @ -30°C~0°C		450 mVpp typ. @ -30°C~0°C
30 ms typ.	25 ms typ.	35 ms typ.	30 ms typ.	25 ms typ.
Single Phase				
90-264 V_{AC}				
47-63 Hz				
2.5 A typ.	4.7 A typ.	1.2 A typ.	2.5 A typ.	4.7 A typ.
1.3 A typ.	2.4 A typ.	0.6 A typ.	1.3 A typ.	2.4 A typ.
94.5% typ.	95.0% typ.	93.0% typ.	94.0% typ.	95.0% typ.
40 A typ.				
> 0.96		> 0.95	> 0.96	
> 0.93		> 0.92	> 0.93	
< 0.5 mA	< 1.5 mA	< 0.5 mA		< 1.5 mA
Metal				
123.6 × 40 × 116.8	123.6 × 56 × 116.8	123.6 × 30 × 116.8	123.6 × 40 × 116.8	123.6 × 56 × 116.8
4.87 × 1.57 × 4.60	4.87 × 2.20 × 4.60	4.87 × 1.18 × 4.60	4.87 × 1.57 × 4.60	4.87 × 2.20 × 4.60
0.64	0.88	0.50	0.64	0.88
1.41	1.94	1.10	1.41	1.94
Convection				
> 700,000 hrs				
-30°C to +70°C				
-40°C to +85°C				
5 to 90% RH (Non-Condensing)				
0 to 5,000 m (0 to 16,400 ft)				

FORCE-GT (24 V)

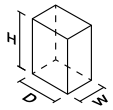
- Built-in constant current circuit for charging applications
- Full load operating temperature up to 55°C
- Cold start at -40°C
- Ultra-Slim design
- Reduced no-load power consumption
- Built-in DC OK relay and LED indicator
- Conformal coating on PCBAs to protect against common dust and pollutants

Applications

Process Automation | Factory Automation | Machine Automation | Renewable Energy

		NEW	NEW	NEW	NEW
Output		**DRF-24V120W3GBA**	**DRF-24V240W3GBA**	**DRF-24V480W3GBA**	**DRF-24V960W3GBA**
Output Voltage		24 V	24 V	24 V	24 V
Output Voltage Range		24-28 V	24-28 V	24-28 V	24-28 V
Output Current		0-5.0 A	0-10.0 A	0-20.0 A	0-40.0 A
Output Power		120 W	240 W	480 W	960 W
PARD (20 MHz)		< 100 mVpp		< 150 mVpp	< 200 mVpp
Hold-up Time	3 × 400 V_{AC}	20 ms typ.		20 ms typ.	
	3 × 500 V_{AC}	40 ms typ.			
Input					
Phase Input		Two or Three Phase			
Input Voltage Range		3 x 320-575 V_{AC} (3-Phase) or 2 x 340-575 V_{AC} (2-Phase) [1]			
Input Frequency		47-63 Hz			
Input Current	3 × 400 V_{AC}	< 0.50 A	< 0.75 A	< 0.85 A	< 1.65 A
	3 × 500 V_{AC}	< 0.40 A	< 0.65 A	< 0.73 A	< 1.35 A
Efficiency [2] at 100% Load	3 × 400 V_{AC}	87.5% typ.	89.5% typ.	94.0% typ.	94.5% typ.
	3 × 500 V_{AC}				
Max Inrush Current (Cold Start)	3 × 400 V_{AC}	20 A typ.		35 A typ.	
	3 × 500 V_{AC}	25 A typ.			
Power Factor	3 × 400 V_{AC}	> 0.45	> 0.50	> 0.90	> 0.90
	3 × 500 V_{AC}	> 0.40		> 0.88	
Leakage Current	3 × 500 V_{AC}	< 3.5 mA			
Mechanical					
Case Cover / Chassis		Aluminium			
Dimensions (H × W × D)	mm	124 × 38 × 125.3	124 × 50 × 125.3	124 × 65 × 127.3	124 × 110 × 128.7
	inch	4.88 × 1.50 × 4.93	4.88 × 1.97 × 4.93	4.88 × 2.56 × 5.01	4.88 × 4.33× 5.07
Unit Weight	kg	0.54	0.84	1.20	2.26
	lb	1.19	1.85	2.65	4.98
Cooling System		Convection			
MTBF [3]		> 700,000 hrs		> 600,000 hrs	> 500,000 hrs
Environment					
Operating Temperature [4]		3-Phase: -25°C to +70°C / 2-Phase: -25°C to +60°C			
Storage Temperature		-40°C to +85°C			
Operating Humidity		5 to 95% RH (Non-Condensing)			
Operating Altitude [5]		0 to 5,000 m (0 to 16,400 ft)			

Dimensions Reference



Notes
1) Power supply can operate at DC input.
2) At 25°C ambient temperature by vertical mounting orientation.
3) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 3 × 400 V_{AC} & 3 × 500 V_{AC}, O/P: 100% load) for vertical mounting orientation.
4) Refer power de-rating in the product datasheet.
5) According to IEC/EN 62368-1, IEC/EN 61010.
6) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

LYTE (12 V, 24 V, 48 V)

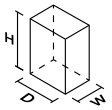
- Built-in constant current circuit for reactive loads
- Full power from -10°C to +50°C @ 230 V_{AC} with -30°C cold start
- Compliance to SEMI F47 @ 200 V_{AC}
- NEC Class 2 / Limited Power Source (LPS) certified (DRL-24V75W1AZ☐ & DRL-48V75W1AZ☐)

Applications

Building Automation | Process Automation | Factory Automation | Machine Automation

Output		DRL-12V75W1AZ☐	DRL-24V75W1AZ☐	DRL-48V75W1AZ☐
Output Voltage		12 V	24 V	48 V
Output Voltage Range		10.8-13.2 V	21.6-26 V	43.2-52.8 V
Output Current		6.25 A	3.125 A	1.57 A
Output Power		75 W	75 W	75.36 W
PARD (20 MHz)		< 120 mVpp @ > -10°C to +70°C < 360 mVpp @ ≤ -10°C to -30°C		< 240 mVpp @ > -10°C to +70°C < 480 mVpp @ ≤ -10°C to -30°C
Hold-up Time	115 V_{AC}	16 ms typ.		
	230 V_{AC}	60 ms typ.		
Input				
Phase Input		Single Phase		
Input Voltage Range		85-264 V_{AC} (DC input range 120-375 V_{DC}) [1]		
Input Frequency		47-63Hz		
Input Current	115 V_{AC}	1.4 A typ.	1.4 A typ.	1.4 A typ.
	230 V_{AC}	0.9 A typ.	0.9 A typ.	0.9 A typ.
Efficiency [2] at 100% Load	230 V_{AC}	87.5% typ.	89.0% typ.	90.0% typ.
Max Inrush Current (Cold Start)	230 V_{AC}	50 A typ.		
Power Factor	115 V_{AC}	NA		
	230 V_{AC}			
Leakage Current	240 V_{AC}	< 1 mA		
Mechanical				
Case Cover / Chassis		Plastic		
Dimensions (H × W × D)	mm	123.6 × 27 × 102	123.6 × 27 × 102	123.6 × 27 × 102
	inch	4.87 × 1.06 × 4.02	4.87 × 1.06 × 4.02	4.87 × 1.06 × 4.02
Unit Weight	kg	0.22	0.22	0.22
	lb	0.49	0.49	0.49
Cooling System		Convection		
MTBF [3]		> 700,000 hrs		
Environment				
Operating Temperature [4]		-20°C to +70°C		
Storage Temperature		-40°C to +85°C		
Operating Humidity		5 to 95% RH (Non-Condensing)		
Operating Altitude		0 to 5,000 m (0 to 16,400 ft)		

Dimensions Reference



Notes
1) All models fulfill the test conditions for this range. DC input safety approval can be obtained upon request.
2) At 25°C ambient temperature by vertical mounting orientation.
3) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 100 V_{AC}, O/P: 100% load) for vertical mounting orientation.
4) Refer power de-rating in the product datasheet.
5) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

LYTE II (12 V, 24 V, 48 V)

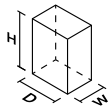
- Slim type design
- Built-in constant current circuit for reactive loads
- Operating from -30°C to +70°C with -40°C cold start
- Compliance with DOE VI energy standard (except 480 W)
- Reduced no-load power consumption
- Compliance to SEMI F47 @ 200 V_{AC}

Applications

Building Automation | Process Automation | Factory Automation | Machine Automation

Output		DRL-12V120W1EN□	DRL-12V240W1EN□	DRL-24V120W1EN□	DRL-24V240W1EN□
Output Voltage		12 V	12 V	24V	24 V
Output Voltage Range		10.8-13.2 V	10.8-13.2 V	21.6-26.4 V	21.6-26.4 V
Output Current		10.0 A	20.0 A	5.0 A	10.0 A
Output Power		120 W	240 W	120 W	240 W
PARD (20 MHz)		< 120 mVpp @ 0°C to +70°C < 360 mVpp @ -30°C to 0°C		< 150 mVpp @ 0°C to +70°C < 450 mVpp @ -30°C to 0°C	
Hold-up Time	115 V_{AC}	10 ms typ.	20 ms typ.	10 ms typ.	20 ms typ.
	230 V_{AC}	16 ms typ.		16 ms typ.	
Input					
Phase Input		Single Phase			
Input Voltage Range		90-264 V_{AC}			
Input Frequency		47-63 Hz			
Input Current	115 V_{AC}	2.1 A typ.	2.5 A typ.	2.1 A typ.	2.5 A typ.
	230 V_{AC}	1.3 A typ.	1.3 A typ.	1.3 A typ.	1.3 A typ.
Efficiency [1] at 100% Load	230 V_{AC}	86.0% typ.	86.5% typ.	88.5% typ.	86.5% typ.
Max Inrush Current (Cold Start)	230 V_{AC}	35 A typ.	40 A typ.	35 A typ.	40 A typ.
Power Factor	115 V_{AC}	NA	> 0.95	NA	> 0.95
	230 V_{AC}				
Leakage Current	240 V_{AC}	< 0.5 mA	< 0.75 mA	< 0.5 mA	< 0.75 mA
Mechanical					
Case Cover / Chassis		SGCC / Aluminium			
Dimensions (H × W × D)	mm	123.6 × 30 × 116.8	123.6 × 40 × 116.8	123.6 × 30 × 116.8	123.6 × 40 × 116.8
	inch	4.87 × 1.18 × 4.60	4.87 × 1.57 × 4.60	4.87 × 1.18 × 4.60	4.87 × 1.57 × 4.60
Unit Weight	kg	0.45	0.62	0.45	0.62
	lb	0.99	1.37	0.99	1.37
Cooling System		Convection			
MTBF [2]		> 700,000 hrs			
Environment					
Operating Temperature [3]		-30°C to +70°C			
Storage Temperature		-40°C to +85°C			
Operating Humidity		20 to 90% RH (Non-Condensing)			
Operating Altitude		0 to 5,000 m (0 to 16,400 ft)			

Dimensions Reference



Notes
1) At 25°C ambient temperature by vertical mounting orientation.
2) MTBF as per Telcordia SR-332 (I/P: 115 V_{AC} & 230 V_{AC}, O/P: 100% load) for vertical mounting orientation.
3) Refer power de-rating in the product datasheet.
4) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

NEW			NEW
DRL-24V480W1EN□	**DRL-48V120W1EN□**	**DRL-48V240W1EN□**	**DRL-48V480W1EN□**
24 V	48 V	48 V	48 V
24-28 V	43.2-52.8 V	43.2-52.8 V	48-55 V
0-20.0 A	2.5 A	5.0 A	0-10.0 A
480 W	120 W	240 W	480 W
< 150 mVpp @ 0°C to +70°C < 450 mVpp @ -30°C to 0°C	< 200 mVpp @ 0°C to +70°C < 600 mVpp @ -30°C to 0°C		
25 ms typ.	10 ms typ. 16 ms typ.	20 ms typ.	25 ms typ.
Single Phase			
90-264 V_{AC}			
47-63 Hz			
4.7 A typ.	2.1 A typ.	2.5 A typ.	4.7 A typ.
2.4 A typ.	1.3 A typ.	1.3 A typ.	2.4 A typ.
93.0% typ.	89.5% typ.	90.5% typ.	93.5% typ.
40 A typ.	35 A typ.	40 A typ.	40 A typ.
> 0.96 > 0.93	NA	> 0.95	> 0.96 > 0.93
< 1.5 mA	< 0.5 mA	< 0.75 mA	< 1.5 mA
SGCC / Aluminium			
123.6 × 56 × 116.8	123.6 × 30 × 116.8	123.6 × 40 × 116.8	123.6 × 56 × 116.8
4.87 × 2.20 × 4.60	4.87 × 1.18 × 4.60	4.87 × 1.57 × 4.60	4.87 × 2.20 × 4.60
0.87	0.45	0.62	0.87
1.91	0.99	1.37	1.91
Convection			
> 700,000 hrs			
-30°C to +70°C			
-40°C to +85°C			
20 to 90% RH (Non-Condensing)			
0 to 5,000 m (0 to 16,400 ft)			

CHROME (5 V, 12 V, 24 V)

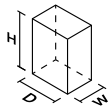
- Class II, Double Isolation
  (No earth connection is required)
- Full power up to 55°C
- Power will not de-rate for the entire input voltage range
- Can be installed in compact cabinets
- NEC Class 2 and Limited Power Source (LPS) approvals
  (except DRC-12V100W1AZ)
- Household appliance approvals IEC/EN 60335-1
  (DRC-24V10W1HZ)

Applications

Building Automation | Process Automation | Factory Automation | Machine Automation | Test & Measurement

Output		DRC-5V10W1A□	DRC-12V10W1A□	DRC-12V30W1A□	DRC-12V60W1□□	DRC-12V100W1AZ
Output Voltage		5 V	12 V	12 V	12 V	12 V
Output Voltage Range		5 V (No potentiometer)	12 V (No potentiometer)	11.5-14.5 V	11.5-14.0 V	12-14 V
Output Current		0-1.5 A	0-0.83 A	0-2.1 A	0-4.5 A	0-6.0 A
Output Power		7.5 W	9.96 W	25 W	54 W	72 W
PARD (20 MHz)		< 100 mVpp				
Hold-up Time	115 V_{AC}	> 10 ms		> 25 ms	> 16 ms	> 20 ms
	230 V_{AC}	> 60 ms				> 100 ms
Input						
Phase Input		Single Phase				
Input Voltage Range		90-264 V_{AC}			90-264 V_{AC} (DC input range 125-375 V_{DC}) [1]	90-264 V_{AC}
Input Frequency		47-63Hz				
Input Current	115 V_{AC}	< 0.3 A	< 0.3 A	< 0.8 A	< 1.5 A	< 1.5 A
	230 V_{AC}	< 0.2 A	< 0.2 A	< 0.6 A	< 1.0 A	< 0.9 A
Efficiency [2] at 100% Load	115 V_{AC}	> 77.0%	> 82.0%	> 85.0%	> 86.0%	
	230 V_{AC}	> 76.0%	> 80.5%			
Max Inrush Current (Cold Start)	115 V_{AC}	< 15 A		< 25 A	< 30 A	
	230 V_{AC}	< 30 A		< 50 A	< 60 A	< 65 A
Power Factor		Conform to EN 61000-3-2				
Leakage Current	240 V_{AC}	< 0.25 mA				-
	264 V_{AC}	-				< 0.25 mA
Mechanical						
Case Cover / Chassis		Plastic				
Dimensions (H × W × D)	mm	91 × 18 × 55.6	91 × 18 × 55.6	91 × 53 × 55.6	91 × 71 × 55.6	91 × 89.9 × 55.6
	inch	3.58 × 0.71 × 2.19	3.58 × 0.71 × 2.19	3.58 × 2.09 × 2.19	3.58 × 2.80 × 2.19	3.58 × 3.54 × 2.19
Unit Weight	kg	0.06	0.06	0.14	0.22	0.36
	lb	0.13	0.13	0.31	0.49	0.79
Cooling System		Convection				
MTBF [3]		> 500,000 hrs				
Environment						
Operating Temperature [4]		-25°C to +71°C				
Storage Temperature		-25°C to +85°C				-40°C to +85°C
Operating Humidity		5 to 95% RH (Non-Condensing)				
Operating Altitude		0 to 2,000 m (0 to 6,560 ft)				

Dimensions Reference



Notes
1) DRC-12V60W1CZ and DRC-24V100W1A□ are certified for DC input.
2) At 25°C ambient temperature by vertical mounting orientation.
3) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 100 V_{AC}, O/P: 100% load, Ta: 35°C) for vertical mounting orientation.
4) Refer power de-rating in the product datasheet.
5) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

DRC-24V10W1A□	DRC-24V10W1HZ	DRC-24V30W1A□	DRC-24V60W1A□	DRC-24V100W1A□
24 V	24 V	24 V	24 V	24 V
24 V (No potentiometer)	24 V (No potentiometer)	23.52-24.48 V	24-28 V	22-24 V
0-0.42 A	0-0.42 A	0-1.25 A	0-2.5 A	0-3.8 A
10 W	10 W	30 W	60 W	91.2 W
< 100 mVpp				
> 10 ms		> 25 ms	> 16 ms	> 10 ms
> 60 ms				
Single Phase				
90-264 V_{AC}				90-264 V_{AC} (DC input range 125-375 V_{DC}) [1]
47-63Hz				
< 0.3 A		< 0.8 A	< 1.5 A	< 2.2 A
< 0.2 A		< 0.6 A	< 1.0 A	
> 80.0%		> 87.0%	> 88.0%	> 87.0%
				> 89.0%
< 15 A		< 25 A	< 30 A	
< 30 A		< 50 A	< 60 A	
Conform to EN 61000-3-2				
< 0.25 mA				
-				
Plastic				
91 × 18 × 55.6	91 × 18 × 55.6	91 × 53 × 55.6	91 × 71 × 55.6	91 × 89.9 × 55.6
3.58 × 0.71 × 2.19	3.58 × 0.71 × 2.19	3.58 × 2.09 × 2.19	3.58 × 2.80 × 2.19	3.58 × 3.54 × 2.19
0.065	0.065	0.14	0.22	0.35
0.14	0.14	0.31	0.49	0.77
Convection				
> 500,000 hrs				
-25°C to +71°C				
-25°C to +85°C				
5 to 95% RH (Non-Condensing)				
0 to 2,000 m (0 to 6,560 ft)				

sync (5 V, 12 V, 24 V)

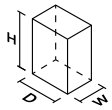
- Ultra-compact size and galvanic isolation up to 3.0 kV_{AC} between input to output and input to ground
- Full power from -10°C to +55°C operation
- Up to 90.0% efficiency
- Low earth leakage current < 0.5 mA @ 264 V_{AC}
- Built-in DC OK relay contact option available
- Extreme low temperature cold start at -40°C
- NEC Class 2 / Limited Power Source (LPS) certified

Applications

Building Automation | Process Automation | Factory Automation | Machine Automation | Test & Measurement

Output		DRS-5V30W1NZ	DRS-5V50W1A□	DRS-5V50W1N□	DRS-12V50W1N□
Output Voltage		5 V	5 V	5 V	12 V
Output Voltage Range		5-5.5 V	5-5.5 V	5-5.5 V	12-15 V
Output Current		0-3.0 A	0-6.0 A	0-5.0 A	0-4.0 A
Output Power		15 W	30 W	25 W	48 W
PARD (20 MHz)		< 75 mVpp @ > 0°C to 70°C < 150 mVpp @ 0°C to -20°C	< 50 mVpp @ > 0°C to 70°C < 100 mVpp @ 0°C to -20°C		
Hold-up Time	115 V_{AC}	> 20 ms			
	230 V_{AC}	> 100 ms			
Input					
Phase Input		Single Phase			
Input Voltage Range		85-264 V_{AC} (DC input range 120-375 V_{DC}) [1]			
Input Frequency		47-63 Hz			
Input Current	115 V_{AC}	< 0.40 A	< 0.60 A	< 0.60 A	< 0.90 A
	230 V_{AC}	< 0.20 A	< 0.40 A	< 0.40 A	< 0.55 A
Efficiency [2] at 100% Load	115 V_{AC}	> 79.0%	> 82.0%		> 88.0%
	230 V_{AC}				> 89.0%
Max Inrush Current (Cold Start)	115 V_{AC}	< 20 A	< 30 A		< 25 A
	230 V_{AC}	< 40 A	< 60 A		< 50 A
Power Factor	115 V_{AC}	Conform to EN 61000-3-2			
	230 V_{AC}				
Leakage Current	240 V_{AC}	-			
	264 V_{AC}	< 0.5 mA	< 0.75 mA		< 0.5 mA
Mechanical					
Case Cover / Chassis		Plastic			
Dimensions (H × W × D)	mm	75 × 21 × 89.5	75 × 30 × 89.5	75 × 30 × 89.5	75 × 30 × 89.5
	inch	2.95 × 0.83 × 3.52	2.95 × 1.18 × 3.52	2.95 × 1.18 × 3.52	2.95 × 1.18 × 3.52
Unit Weight	kg	0.11	0.16	0.16	0.18
	lb	0.24	0.35	0.35	0.40
Cooling System		Convection			
MTBF [3]		> 700,000 hrs			
Environment					
Operating Temperature [4]		-20°C to +70°C			
Storage Temperature		-40°C to +85°C			
Operating Humidity		5 to 95% RH (Non-Condensing)			
Operating Altitude		0 to 2,000 m (0 to 6,560 ft)			

Dimensions Reference



Notes
1) All models fulfill the test conditions for DC input. DC input safety approval can be obtained upon request.
2) At 25°C ambient temperature by vertical mounting orientation.
3) DRS-24V30W1AZ, MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 100 V_{AC}, O/P: 100% load) for vertical mounting orientation.
   Other models, MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 115 V_{AC} & 230 V_{AC}, O/P: 100% load) for vertical mounting orientation.
4) Refer power de-rating in the product datasheet.
5) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

DRS-24V30W1AZ	DRS-24V30W1NZ	DRS-24V50W1N□	DRS-24V100W1A□	DRS-24V100W1N□
24 V	24 V	24 V	24 V	24 V
21.6-26.4 V	24-28 V	24-28 V	24-28 V	22-24 V
0-1.25 A	0-1.25 A	0-2.1 A	0-4.0 A	0-3.8 A
30 W	30 W	50 W	96 W	91.2 W
< 150 mVpp @ > 0°C to 70°C < 500 mVpp @ 0°C to -20°C	< 75 mVpp @ > 0°C to 70°C < 150 mVpp @ 0°C to -20°C	< 70 mVpp @ > 0°C to 70°C < 100 mVpp @ 0°C to -20°C	< 50 mVpp @ > 0°C to 70°C, < 100 mVpp @ 0°C to -20°C	
-	> 20 ms		> 50 ms	
> 20 ms	> 100 ms			
Single Phase				
85-264 V_{AC}	85-264 V_{AC} (DC input range 120-375 V_{DC}) [1]			
47-63 Hz				
< 0.80 A	< 0.55 A	< 0.95 A	< 1.20 A	< 1.20 A
< 0.40 A	< 0.35 A	< 0.55 A	< 0.60 A	< 0.60 A
-	> 87.5%	> 89.0%	> 89.0%	
88.0% typ.		> 90.0%		
< 30 A	< 20 A	< 30 A	< 25 A	
< 60 A	< 40 A	< 50 A	< 40 A	
Conform to EN 61000-3-2			> 0.97	
			> 0.90	
< 0.5 mA	-			
-	< 0.5 mA			
Plastic				
75 × 21 × 89.5	75 × 21 × 89.5	75 × 30 × 89.5	75 × 45 × 100	75 × 45 × 100
2.95 × 0.83 × 3.52	2.95 × 0.83 × 3.52	2.95 × 1.18 × 3.52	2.95 × 1.77 × 3.94	2.95 × 1.77 × 3.94
0.10	0.11	0.18	0.325	0.325
0.22	0.24	0.40	0.72	0.72
Convection				
> 700,000 hrs				
-20°C to +70°C				
-40°C to +85°C				
5 to 95% RH (Non-Condensing)				
0 to 2,000 m (0 to 6,560 ft)				

Panel Mount Power Supplies

PMT2

Low profile design with 30 mm height

Power Range: 36-350 W

PMC

Full corrosion resistant aluminium casing

Power Range: 15-600 W

PMR

Built-in active PFC with 1U low profile

Power Range: 252-321.6 W

PMF

Built-in active PFC

Power Range: 231-320 W

PMU

Power supply with DC-UPS function

Power Range: 151 W

MEB

High power output with built-in fan cooling

Power Range: 500-1,200 W

Applications

Building Automation

Process Automation

Factory Automation

Machine Automation

Test & Measurement

LED Lighting

Renewable Energy

Medical Equipment

Household Appliance


PROGRAM
CYCLE START
FEED HOLD
DOOR RELEASE
TOOL
UNCLAMP
CLAMP
MACHINE
READY
MODE SELECT

PMT2 (12 V)

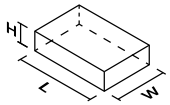
- Household appliance approvals to IEC/EN 60335-1, IEC/EN 61558-1 and IEC/EN 61558-2-16 (except 350 W)
- No load power consumption
- Low profile design: 30 mm height
- Over Voltage Category III, Pollution Degree 3 (except 350 W)
- Cold start at -40°C

Applications

Building Automation | Process Automation | Factory Automation | Machine Automation | Test & Measurement | Household Appliance

Output		PMT-12V35W2BA□	PMT-12V50W2BA□	PMT-12V75W2BA□	PMT-12V100W2BA□
Output Voltage		12 V	12 V	12 V	12 V
Output Voltage Range		10.8-13.2 V	10.8-13.2 V	10.8-13.2 V	10.8-13.2 V
Output Current		3.0 A	4.2 A	6.0 A	8.5 A
Output Power		36 W	50.4 W	72 W	102 W
PARD (20 MHz)		< 120 mVpp @ 0°C to 70°C, 360 mVpp typ. @ -30°C to 0°C			
Hold-up Time	115 V_{AC}	16 ms typ.	12 ms typ.	11 ms typ.	9 ms typ.
	230 V_{AC}	70 ms typ.	60 ms typ.	52 ms typ.	42 ms typ.
Input					
Phase Input		Single Phase			
Input Voltage Range		90-264 V_{AC}			
Input Frequency		47-63 Hz			
Input Current	115 V_{AC}	0.7 A typ.	0.95 A typ.	1.4 A typ.	1.9 A typ.
	230 V_{AC}	0.42 A typ.	0.6 A typ.	0.85 A typ.	1.2 A typ.
Efficiency [1] at 100% Load	230 V_{AC}	86.0% typ.	85.0% typ.	87.0% typ.	87.5% typ.
Max Inrush Current (Cold Start)	230 V_{AC}	45 A typ.		55 A typ.	
Power Factor		NA			
Leakage Current (50 Hz)	240 V_{AC}	< 0.5 mA			
Mechanical					
Case Cover / Chassis		SGCC / Aluminium			
Dimensions (L × W × H)	mm	99 × 82 × 29	99 × 82 × 29	99 × 97 × 30	129 × 97 × 30
	inch	3.90 × 3.23 × 1.14	3.90 × 3.23 × 1.14	3.90 × 3.82 × 1.18	5.08 × 3.82 × 1.18
Unit Weight	kg	0.17	0.18	0.22	0.29
	lb	0.36	0.39	0.48	0.63
Cooling System		Convection			
MTBF [3]		> 700,000 hrs			
Environment					
Operating Temperature [4]		-30°C to +70°C			
Storage Temperature		-40°C to +85°C			
Operating Humidity		20 to 90% RH (Non-Condensing)			
Operating Altitude		0 to 5,000 m (0 to 16,400 ft)			

Dimensions Reference



Notes
1) At 25°C ambient temperature by horizontal mounting orientation.
2) PMT-12V350W2BR□ models only.
3) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 230 V_{AC}, O/P: 100% load).
4) Refer power de-rating in the product datasheet.
5) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

PMT-12V150W2BA□	PMT-12V150W2CA□	PMT-12V200W2B□□	PMT-12V350W2B□□
12 V	12 V	12 V	12 V
10.8-13.2 V	10.8-13.2 V	10.8-13.2 V	10.8-13.2 V
12.5 A	12.5 A	17.0 A	29.0 A (43.5 A for 1 s) [2]
150 W	150 W	204 W	348 W (522 W for 1 s) [2]
< 150 mVpp @ 0°C to 70°C, 450 mVpp typ. @ -30°C to 0°C			
30 ms typ.	12 ms typ. 55 ms typ.	30 ms typ.	20 ms typ.
Single Phase			
90-132 V_{AC}, 180-264 V_{AC} (Selectable by Switch)	90-264 V_{AC}	90-132 V_{AC}, 180-264 V_{AC} (Selectable by Switch)	
47-63 Hz			
3.0 A typ.	3.0 A typ.	4.0 A typ.	6.0 A typ.
1.7 A typ.	1.7 A typ.	2.2 A typ.	3.4 A typ.
87.5% typ.	88.0% typ.	88.5% typ.	84.5% typ.
60 A typ.			
NA			
< 0.5 mA			< 0.75 mA
SGCC / Aluminium			SGCC / SGCC
159 × 97 × 30	159 × 97 × 30	159 × 97 × 30	215 × 115 × 30
6.26 × 3.82 × 1.18	6.26 × 3.82 × 1.18	6.26 × 3.82 × 1.18	8.46 × 4.53 × 1.18
0.35	0.39	0.42	0.83
0.78	0.86	0.93	1.84
Convection			Forced Air (Built-in Fan)
> 700,000 hrs			
-30°C to +70°C			
-40°C to +85°C			
20 to 90% RH (Non-Condensing)			
0 to 5,000 m (0 to 16,400 ft)			

PMT2 (15 V)

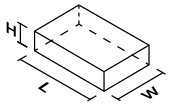
- Household appliance approvals to IEC/EN 60335-1, IEC/EN 61558-1 and IEC/EN 61558-2-16
- No load power consumption
- Low profile design: 30 mm height
- Over Voltage Category III, Pollution Degree 3
- Cold start at -40°C

Applications

Building Automation | Process Automation | Factory Automation | Machine Automation | Test & Measurement | Household Appliance

Output		PMT-15V35W2BA	PMT-15V50W2BA	PMT-15V75W2BA
Output Voltage		15 V	15 V	15 V
Output Voltage Range		13.5-16.5 V	13.5-16.5 V	13.5-16.5 V
Output Current		2.4 A	3.4 A	5.0 A
Output Power		36 W	51 W	75 W
PARD (20 MHz)		< 120 mVpp @ 0°C to 70°C, 360 mVpp typ. @ -30°C to 0°C		
Hold-up Time	115 V_{AC}	16 ms typ.	12 ms typ.	11 ms typ.
	230 V_{AC}	70 ms typ.	60 ms typ.	52 ms typ.
Input				
Phase Input		Single Phase		
Input Voltage Range		90-264 V_{AC}		
Input Frequency		47-63 Hz		
Input Current	115 V_{AC}	0.7 A typ.	0.95 A typ.	1.4 A typ.
	230 V_{AC}	0.42 A typ.	0.6 A typ.	0.85 A typ.
Efficiency [1] at 100% Load	230 V_{AC}	87.0% typ.		88.0% typ.
Max Inrush Current (Cold Start)	230 V_{AC}	45 A typ.		55 A typ.
Power Factor		NA		
Leakage Current (50 Hz)	240 V_{AC}	< 0.5 mA		
Mechanical				
Case Cover / Chassis		SGCC / Aluminium		
Dimensions (L × W × H)	mm	99 × 82 × 29	99 × 82 × 29	99 × 97 × 30
	inch	3.90 × 3.23 × 1.14	3.90 × 3.23 × 1.14	3.90 × 3.82 × 1.18
Unit Weight	kg	0.17	0.18	0.22
	lb	0.36	0.39	0.48
Cooling System		Convection		
MTBF [2]		> 700,000 hrs		
Environment				
Operating Temperature [3]		-30°C to +70°C		
Storage Temperature		-40°C to +85°C		
Operating Humidity		20 to 90% RH (Non-Condensing)		
Operating Altitude		0 to 5,000 m (0 to 16,400 ft)		

Dimensions Reference



Notes
1) At 25°C ambient temperature by horizontal mounting orientation.
2) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 230 V_{AC}, O/P: 100% load).
3) Refer power de-rating in the product datasheet.
4) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

PMT-15V100W2BA	PMT-15V150W2BA	PMT-15V150W2CA
15 V	15 V	15 V
13.5-16.5 V	13.5-16.5 V	13.5-16.5 V
7.0 A	10.0 A	10.0 A
105 W	150 W	150 W
< 120 mVpp @ 0°C to 70°C, 360 mVpp typ. @ -30°C to 0°C	< 150 mVpp @ 0°C to 70°C, 450 mVpp typ. @ -30°C to 0°C	
9 ms typ.	30 ms typ.	12 ms typ.
42 ms typ.		55 ms typ.
Single Phase		
90-264 V_{AC}	90-132 V_{AC}, 180-264 V_{AC} (Selectable by Switch)	90-264 V_{AC}
47-63 Hz		
1.9 A typ.	3.0 A typ.	3.0 A typ.
1.2 A typ.	1.7 A typ.	1.7 A typ.
88.0% typ.		89% typ.
55 A typ.	60 A typ.	
NA		
< 0.5 mA		
SGCC / Aluminium		
129 × 97 × 30	159 × 97 × 30	159 × 97 × 30
5.08 × 3.82 × 1.18	6.26 × 3.82 × 1.18	6.26 × 3.82 × 1.18
0.29	0.35	0.39
0.63	0.78	0.86
Convection		
> 700,000 hrs		
-30°C to +70°C		
-40°C to +85°C		
20 to 90% RH (Non-Condensing)		
0 to 5,000 m (0 to 16,400 ft)		

PMT2 (24 V)

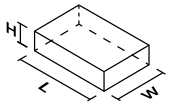
- Household appliance approvals to IEC/EN 60335-1, IEC/EN 61558-1 and IEC/EN 61558-2-16 (except 350 W)
- No load power consumption
- Low profile design: 30 mm height
- Over Voltage Category III, Pollution Degree 3 (except 350 W)
- Cold start at -40°C

Applications

Building Automation | Process Automation | Factory Automation | Machine Automation | Test & Measurement | Household Appliance

Output		PMT-24V35W2BA	PMT-24V50W2BA	PMT-24V75W2BA□	PMT-24V100W2BA□
Output Voltage		24 V	24 V	24 V	24 V
Output Voltage Range		21.6-26.4 V	21.6-26.4 V	21.6-26.4 V	21.6-26.4 V
Output Current		1.5 A	2.2 A	3.2 A	4.5 A
Output Power		36 W	52.8 W	76.8 W	108 W
PARD (20 MHz)		< 150 mVpp @ 0°C to 70°C, 450 mVpp typ. @ -30°C to 0°C			
Hold-up Time	115 V_{AC}	16 ms typ.	12 ms typ.	11 ms typ.	9 ms typ.
	230 V_{AC}	70 ms typ.	60 ms typ.	52 ms typ.	42 ms typ.
Input					
Phase Input		Single Phase			
Input Voltage Range		90-264 V_{AC}			
Input Frequency		47-63 Hz			
Input Current	115 V_{AC}	0.7 A typ.	0.95 A typ.	1.4 A typ.	1.9 A typ.
	230 V_{AC}	0.42 A typ.	0.6 A typ.	0.85 A typ.	1.2 A typ.
Efficiency [1] at 100% Load	230 V_{AC}	88.5% typ.	88.0% typ.	89.5% typ.	90.0% typ.
Max Inrush Current (Cold Start)	230 V_{AC}	45 A typ.		55 A typ.	
Power Factor		NA			
Leakage Current (50 Hz)	240 V_{AC}	< 0.5 mA			
Mechanical					
Case Cover / Chassis		SGCC / Aluminium			
Dimensions (L × W × H)	mm	99 × 82 × 29	99 × 82 × 29	99 × 97 × 30	129 × 97 × 30
	inch	3.90 × 3.23 × 1.14	3.90 × 3.23 × 1.14	3.90 × 3.82 × 1.18	5.08 × 3.82 × 1.18
Unit Weight	kg	0.17	0.18	0.22	0.29
	lb	0.36	0.39	0.48	0.63
Cooling System		Convection			
MTBF [3]		> 700,000 hrs			
Environment					
Operating Temperature [4]		-30°C to +70°C			
Storage Temperature		-40°C to +85°C			
Operating Humidity		20 to 90% RH (Non-Condensing)			
Operating Altitude		0 to 5,000 m (0 to 16,400 ft)			

Dimensions Reference



Notes
1) At 25°C ambient temperature by horizontal mounting orientation.
2) PMT-24V350W2BR□ models only.
3) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 230 V_{AC}, O/P: 100% load).
4) Refer power de-rating in the product datasheet.
5) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

PMT-24V150W2BA□	PMT-24V150W2CA□	PMT-24V200W2B□□	PMT-24V350W2B□□
24 V	24 V	24 V	24 V
21.6-26.4 V	21.6-26.4 V	21.6-26.4 V	21.6-26.4 V
6.25 A	6.5 A	8.8 A	14.6 A (21.9 A for 1 s) [2]
150 W	156 W	211.2 W	350.4 W (525.6 W for 1 s) [2]
< 200 mVpp @ 0°C to 70°C, 600 mVpp typ. @ -30°C to 0°C		< 150 mVpp @ 0°C to 70°C, 450 mVpp typ. @ -30°C to 0°C	< 200 mVpp @ 0°C to 70°C, 600 mVpp typ. @ -30°C to 0°C
30 ms typ.	12 ms typ. 55 ms typ.	30 ms typ.	20 ms typ.
Single Phase			
90-132 V_{AC}, 180-264 V_{AC} (Selectable by Switch)	90-264 V_{AC}	90-132 V_{AC}, 180-264 V_{AC} (Selectable by Switch)	
47-63 Hz			
3.0 A typ.	3.0 A typ.	4.0 A typ.	6.0 A typ.
1.7 A typ.	1.7 A typ.	2.2 A typ.	3.4 A typ.
89.0% typ.	90% typ.		87.0% typ.
60 A typ.			
NA			
< 0.5 mA			< 0.75 mA
SGCC / Aluminium			SGCC / SGCC
159 × 97 × 30	159 × 97 × 30	159 × 97 × 30	215 × 115 × 30
6.26 × 3.82 × 1.18	6.26 × 3.82 × 1.18	6.26 × 3.82 × 1.18	8.46 × 4.53 × 1.18
0.35	0.39	0.42	0.83
0.78	0.86	0.93	1.84
Convection			Forced Air (Built-in Fan)
> 700,000 hrs			
-30°C to +70°C			
-40°C to +85°C			
20 to 90% RH (Non-Condensing)			
0 to 5,000 m (0 to 16,400 ft)			

PMT2 (30 V)

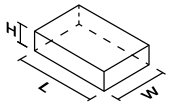
- Household appliance approvals to IEC/EN 60335-1, IEC/EN 61558-1 and IEC/EN 61558-2-16
- No load power consumption
- Low profile design: 30 mm height
- Over Voltage Category III, Pollution Degree 3
- Cold start at -40°C

Applications

Building Automation | Process Automation | Factory Automation | Machine Automation | Test & Measurement | Household Appliance

Output		PMT-30V35W2BA	PMT-30V50W2BA	PMT-30V75W2BA
Output Voltage		30 V	30 V	30 V
Output Voltage Range		27-33 V	27-33 V	27-33 V
Output Current		1.2 A	1.7 A	2.5 A
Output Power		36 W	51 W	75 W
PARD (20 MHz)		< 150 mVpp @ 0°C to 70°C, 450 mVpp typ. @ -30°C to 0°C		
Hold-up Time	115 V_{AC}	16 ms typ.	12 ms typ.	11 ms typ.
	230 V_{AC}	70 ms typ.	60 ms typ.	52 ms typ.
Input				
Phase Input		Single Phase		
Input Voltage Range		90-264 V_{AC}		
Input Frequency		47-63 Hz		
Input Current	115 V_{AC}	0.70 A typ.	0.95 A typ.	1.4 A typ.
	230 V_{AC}	0.42 A typ.	0.60 A typ.	0.85 A typ.
Efficiency [1] at 100% Load	230 V_{AC}	87.5% typ.	88.0% typ.	89.5% typ.
Max Inrush Current (Cold Start)	230 V_{AC}	45 A typ.		55 A typ.
Power Factor		NA		
Leakage Current (50 Hz)	240 V_{AC}	< 0.5 mA		
Mechanical				
Case Cover / Chassis		SGCC / Aluminium		
Dimensions (L × W × H)	mm	99 × 82 × 29	99 × 82 × 29	99 × 97 × 30
	inch	3.90 × 3.23 × 1.14	3.90 × 3.23 × 1.14	3.90 × 3.82 × 1.18
Unit Weight	kg	0.17	0.18	0.22
	lb	0.36	0.39	0.48
Cooling System		Convection		
MTBF [2]		> 700,000 hrs		
Environment				
Operating Temperature [3]		-30°C to +70°C		
Storage Temperature		-40°C to +85°C		
Operating Humidity		20 to 90% RH (Non-Condensing)		
Operating Altitude		0 to 5,000 m (0 to 16,400 ft)		

Dimensions Reference



Notes
1) At 25°C ambient temperature by horizontal mounting orientation.
2) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 230 V_{AC}, O/P: 100% load).
3) Refer power de-rating in the product datasheet.
4) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

PMT-30V100W2BA	PMT-30V150W2BA	PMT-30V150W2CA
30 V	30 V	30 V
27-33 V	27-33 V	27.0-33.0 V
3.6 A	5.0 A	5.0 A
108 W	150 W	150 W
< 150 mVpp @ 0°C to 70°C, 450 mVpp typ. @ -30°C to 0°C	< 200 mVpp @ 0°C to 70°C, 600 mVpp typ. @ -30°C to 0°C	
9 ms typ.	30 ms typ.	12 ms typ.
42 ms typ.		55 ms typ.
Single Phase		
90-264 V_{AC}	90-132 V_{AC}, 180-264 V_{AC} (Selectable by Switch)	90-264 V_{AC}
47-63 Hz		
1.9 A typ.	3.0 A typ.	3.0 A typ.
1.2 A typ.	1.7 A typ.	1.7 A typ.
90.0% typ.	89.0% typ.	90% typ.
55 A typ.	60 A typ.	
NA		
< 0.5 mA		
SGCC / Aluminium		
129 × 97 × 30	159 × 97 × 30	159 × 97 × 30
5.08 × 3.82 × 1.18	6.26 × 3.82 × 1.18	6.26 × 3.82 × 1.18
0.29	0.35	0.39
0.63	0.78	0.86
Convection		
> 700,000 hrs		
-30°C to +70°C		
-40°C to +85°C		
20 to 90% RH (Non-Condensing)		
0 to 5,000 m (0 to 16,400 ft)		

PMT2 (36 V)

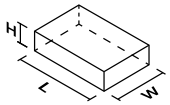
- Household appliance approvals to IEC/EN 60335-1, IEC/EN 61558-1 and IEC/EN 61558-2-16 (except 350 W)
- No load power consumption
- Low profile design: 30 mm height
- Over Voltage Category III, Pollution Degree 3 (except 350 W)
- Cold start at -40°C

Applications

Building Automation | Process Automation | Factory Automation | Machine Automation | Test & Measurement | Household Appliance

Output		PMT-36V35W2BA	PMT-36V50W2BA	PMT-36V75W2BA	PMT-36V100W2BA
Output Voltage		36 V	36 V	36 V	36 V
Output Voltage Range		32.4-39.6 V	32.4-39.6 V	32.4-39.6 V	32.4-39.6 V
Output Current		1 A	1.45 A	2.1 A	3 A
Output Power		36 W	52.2 W	75.6 W	108 W
PARD (20 MHz)		< 200 mVpp @ 0°C to 70°C, 600 mVpp typ. @ -30°C to 0°C			
Hold-up Time	115 V_{AC}	16 ms typ.	12 ms typ.	11 ms typ.	9 ms typ.
	230 V_{AC}	70 ms typ.	60 ms typ.	52 ms typ.	42 ms typ.
Input					
Phase Input		Single Phase			
Input Voltage Range		90-264 V_{AC}			
Input Frequency		47-63 Hz			
Input Current	115 V_{AC}	0.7 A typ.	0.95 A typ.	1.4 A typ.	1.9 A typ.
	230 V_{AC}	0.42 A typ.	0.6 A typ.	0.85 A typ.	1.2 A typ.
Efficiency [1] at 100% Load	230 V_{AC}	89.0% typ.		90.5% typ.	91.0% typ.
Max Inrush Current (Cold Start)	230 V_{AC}	45 A typ.		55 A typ.	
Power Factor		NA			
Leakage Current (50 Hz)	240 V_{AC}	< 0.5 mA			
Mechanical					
Case Cover / Chassis		SGCC / Aluminium			
Dimensions (L × W × H)	mm	99 × 82 × 29	99 × 82 × 29	99 × 97 × 30	129 × 97 × 30
	inch	3.90 × 3.23 × 1.14	3.90 × 3.23 × 1.14	3.90 × 3.82 × 1.18	5.08 × 3.82 × 1.18
Unit Weight	kg	0.17	0.18	0.22	0.29
	lb	0.36	0.39	0.48	0.63
Cooling System		Convection			
MTBF [3]		> 700,000 hrs			
Environment					
Operating Temperature [4]		-30°C to +70°C			
Storage Temperature		-40°C to +85°C			
Operating Humidity		20 to 90% RH (Non-Condensing)			
Operating Altitude		0 to 5,000 m (0 to 16,400 ft)			

Dimensions Reference



Notes
1) At 25°C ambient temperature by horizontal mounting orientation.
2) PMT-36V350W2BR model only.
3) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 230 V_{AC}, O/P: 100% load).
4) Refer power de-rating in the product datasheet.
5) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

PMT-36V150W2BA	PMT-36V150W2CA	PMT-36V200W2B□	PMT-36V350W2B□
36 V	36 V	36 V	36 V
32.4-39.6 V	32.4-39.6 V	32.4-39.6 V	32.4-39.6 V
4.3 A	4.3 A	5.9 A	9.7 A (14.55 A for 1 s) [2]
154.8 W	154.8 W	212.4 W	349.2 W (523.8 W for 1 s) [2]
< 200 mVpp @ 0°C to 70°C, 600 mVpp typ. @ -30°C to 0°C			
30 ms typ.	12 ms typ. 55 ms typ.	30 ms typ.	20 ms typ.
Single Phase			
90-132 V_{AC}, 180-264 V_{AC} (Selectable by Switch)	90-264 V_{AC}	90-132 V_{AC}, 180-264 V_{AC} (Selectable by Switch)	
47-63 Hz			
3.0 A typ.	3.0 A typ.	4.0 A typ.	6.0 A typ.
1.7 A typ.	1.7 A typ.	2.2 A typ.	3.4 A typ.
89.5% typ.	90% typ.		88.0% typ.
60 A typ.			
NA			
< 0.5 mA			< 0.75 mA
SGCC / Aluminium			SGCC / SGCC
159 × 97 × 30	159 × 97 × 30	159 × 97 × 30	215 × 115 × 30
6.26 × 3.82 × 1.18	6.26 × 3.82 × 1.18	6.26 × 3.82 × 1.18	8.46 × 4.53 × 1.18
0.35	0.39	0.42	0.83
0.78	0.86	0.93	1.84
Convection			Forced Air (Built-in Fan)
> 700,000 hrs			
-30°C to +70°C			
-40°C to +85°C			
20 to 90% RH (Non-Condensing)			
0 to 5,000 m (0 to 16,400 ft)			

PMT2 (48 V)

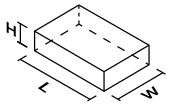
- Household appliance approvals to IEC/EN 60335-1, IEC/EN 61558-1 and IEC/EN 61558-2-16 (except 350 W)
- No load power consumption
- Low profile design: 30 mm height
- Over Voltage Category III, Pollution Degree 3 (except 350 W)
- Cold start at -40°C

Applications

Building Automation | Process Automation | Factory Automation | Machine Automation | Test & Measurement | Household Appliance

Output		PMT-48V35W2BA	PMT-48V50W2BA	PMT-48V75W2BA	PMT-48V100W2BA
Output Voltage		48 V	48 V	48 V	48 V
Output Voltage Range		43.2-52.8 V	43.2-52.8 V	43.2-52.8 V	43.2-52.8 V
Output Current		0.8 A	1.1 A	1.6 A	2.3 A
Output Power		38.4 W	52.8 W	76.8 W	110.4 W
PARD (20 MHz)		< 200 mVpp @ 0°C to 70°C, 600 mVpp typ. @ -30°C to 0°C			
Hold-up Time	115 V_{AC}	16 ms typ.	12 ms typ.	11 ms typ.	9 ms typ.
	230 V_{AC}	70 ms typ.	60 ms typ.	52 ms typ.	42 ms typ.
Input					
Phase Input		Single Phase			
Input Voltage Range		90-264 V_{AC}			
Input Frequency		47-63 Hz			
Input Current	115 V_{AC}	0.7 A typ.	0.95 A typ.	1.4 A typ.	1.9 A typ.
	230 V_{AC}	0.42 A typ.	0.6 A typ.	0.85 A typ.	1.2 A typ.
Efficiency [1] at 100% Load	230 V_{AC}	89.5% typ.	88.5% typ.	90.0% typ.	91.5% typ.
Max Inrush Current (Cold Start)	230 V_{AC}	45 A typ.		55 A typ.	
Power Factor		NA			
Leakage Current (50 Hz)	240 V_{AC}	< 0.5 mA			
Mechanical					
Case Cover / Chassis		SGCC / Aluminium			
Dimensions (L × W × H)	mm	99 × 82 × 29	99 × 82 × 29	99 × 97 × 30	129 × 97 × 30
	inch	3.90 × 3.23 × 1.14	3.90 × 3.23 × 1.14	3.90 × 3.82 × 1.18	5.08 × 3.82 × 1.18
Unit Weight	kg	0.17	0.18	0.22	0.29
	lb	0.36	0.39	0.48	0.63
Cooling System		Convection			
MTBF [3]		> 700,000 hrs			
Environment					
Operating Temperature [4]		-30°C to +70°C			
Storage Temperature		-40°C to +85°C			
Operating Humidity		20 to 90% RH (Non-Condensing)			
Operating Altitude		0 to 5,000 m (0 to 16,400 ft)			

Dimensions Reference



Notes
1) At 25°C ambient temperature by horizontal mounting orientation.
2) PMT-48V350W2BR model only.
3) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 230 V_{AC}, O/P: 100% load).
4) Refer power de-rating in the product datasheet.
5) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

PMT-48V150W2BA	PMT-48V150W2CA	PMT-48V200W2B□	PMT-48V350W2B□
48 V	48 V	48 V	48 V
43.2-52.8 V	43.2-52.8 V	43.2-52.8 V	43.2-52.8 V
3.3 A	3.3 A	4.4 A	7.3 A (10.95 A for 1 s) [2]
158.4 W	158.4 W	211.2 W	350.4 W (525.6 W for 1 s) [2]
< 200 mVpp @ 0°C to 70°C, 600 mVpp typ. @ -30°C to 0°C			
30 ms typ.	12 ms typ. 55 ms typ.	30 ms typ.	20 ms typ.
Single Phase			
90-132 V_{AC}, 180-264 V_{AC} (Selectable by Switch)	90-264 V_{AC}	90-132 V_{AC}, 180-264 V_{AC} (Selectable by Switch)	
47-63 Hz			
3.0 A typ.	3.0 A typ.	4.0 A typ.	6.0 A typ.
1.7 A typ.	1.7 A typ.	2.2 A typ.	3.4 A typ.
91.0% typ.			88.0% typ.
60 A typ.			
NA			
< 0.5 mA			< 0.75 mA
SGCC / Aluminium			SGCC / SGCC
159 × 97 × 30	159 × 97 × 30	159 × 97 × 30	215 × 115 × 30
6.26 × 3.82 × 1.18	6.26 × 3.82 × 1.18	6.26 × 3.82 × 1.18	8.46 × 4.53 × 1.18
0.35	0.39	0.42	0.83
0.78	0.86	0.93	1.84
Convection			Forced Air (Built-in Fan)
> 700,000 hrs			
-30°C to +70°C			
-40°C to +85°C			
20 to 90% RH (Non-Condensing)			
0 to 5,000 m (0 to 16,400 ft)			

PMT2 (Dual)

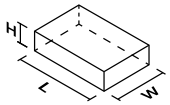
- Isolated & non-isolated Output & Ground for CH1 & CH2
- Household appliance approvals to IEC/EN 60335-1, IEC/EN 61558-1 and IEC/EN 61558-2-16
- No load power consumption
- Low profile design: 30 mm height
- Over Voltage Category III, Pollution Degree 3
- Cold start at -40°C

Applications

Building Automation | Process Automation | Factory Automation | Machine Automation | Test & Measurement | Household Appliance

Output		PMT-D1V75W2□A	PMT-D2V75W2□A
Output Voltage		V1: 5 V, V2: 12 V	V1: 5 V, V2: 24 V
Output Voltage Range		V1: Fixed, V2: 10.8-13.2 V	V1: Fixed, V2: 21.6-26.4 V
Output Current		V1: 0-5.0 A, V2: 0.3-4.0 A	V1: 0-5.0 A, V2: 0.2-2.1 A
Output Power		73 W	75.4 W
PARD (20 MHz)		V1: < 100 mVpp, V2: < 120 mVpp @ 0°C to 70°C V1: 300 mVpp, V2: 360 mVpp typ. @ -30°C to 0°C	V1: < 100 mVpp, V2: < 150 mVpp @ 0°C to 70°C V1: 300 mVpp, V2: 450 mVpp typ @ -30°C to 0°C
Hold-up Time	115 V_{AC}	10 ms typ.	
	230 V_{AC}	50 ms typ.	
Input			
Phase Input		Single Phase	
Input Voltage Range		90-264 V_{AC}	
Input Frequency		47-63 Hz	
Input Current	115 V_{AC}	1.4 A typ.	1.4 A typ.
	230 V_{AC}	0.85 A typ.	0.85 A typ.
Efficiency [1] at 100% Load	230 V_{AC}	83.0% typ.	85.0% typ.
Max Inrush Current (Cold Start)	230 V_{AC}	55 A typ.	
Power Factor		NA	
Leakage Current (50 Hz)	240 V_{AC}	< 0.5 mA	
Mechanical			
Case Cover / Chassis		SGCC / Aluminium	
Dimensions (L × W × H)	mm	129 × 97 × 30	129 × 97 × 30
	inch	5.08 × 3.82 × 1.18	5.08 × 3.82 × 1.18
Unit Weight	kg	0.28	0.28
	lb	0.61	0.61
Cooling System		Convection	
MTBF [2]		> 700,000 hrs	
Environment			
Operating Temperature [3]		-30°C to +70°C	
Storage Temperature		-40°C to +85°C	
Operating Humidity		20 to 90% RH (Non-Condensing)	
Operating Altitude		0 to 5,000 m (0 to 16,400 ft)	

Dimensions Reference



Notes
1) At 25°C ambient temperature by horizontal mounting orientation.
2) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 230 V_{AC}, O/P: 100% load).
3) Refer power de-rating in the product datasheet.
4) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

PMC (5 V, 12 V)

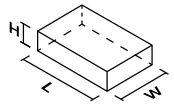
- Power will not de-rate for the entire input voltage range (except 600 W)
- Full corrosion resistant aluminium casing (PMC-12V150W1B☐)
- High MTBF > 700,000 hrs per Telcordia SR-332
- Overvoltage / Overcurrent / Over Temperature / Short Circuit Protections

Applications

Building Automation | Process Automation | Factory Automation | Machine Automation | Test & Measurement | LED Lighting | Renewable Energy

Output		PMC-05V015W1AA	PMC-12V150W1B☐	PMC-12V600W1BA
Output Voltage		5 V	12 V	12 V
Output Voltage Range		4.75-5.50 V	11-14 V	10.8-13.2 V
Output Current		0-3.0 A	0-12.5 A	0-50 A
Output Power		15 W	150 W	600 W
PARD (20 MHz)		< 70 mVpp	< 100 mVpp	< 240 mVpp
Hold-up Time	115 V_{AC}	> 15 ms	> 30 ms	> 20 ms
	230 V_{AC}	> 80 ms		
Input				
Phase Input		Single Phase		
Input Voltage Range		85-264 V_{AC} (DC input range 125-375 V_{DC}) [1]		85-264 V_{AC} (DC input range 120-375 V_{DC}) [1]
Input Frequency		47-63 Hz		
Input Current	115 V_{AC}	< 0.40 A	< 1.70 A	< 6.5 A
	230 V_{AC}	< 0.22 A	< 1.00 A	< 3.2 A
Efficiency [2] at 100% Load	115 V_{AC}	> 80.0%	> 87.0%	> 85.5%
	230 V_{AC}		> 88.0%	> 89.0%
Max Inrush Current (Cold Start)	115 V_{AC}	< 30 A	< 60 A	< 10 A
	230 V_{AC}	< 65 A	< 120 A	< 20 A
Power Factor	115 V_{AC}	Conform to EN 61000-3-2	> 0.99	> 0.98
	230 V_{AC}		> 0.90	> 0.95
Leakage Current	240 V_{AC}	< 1mA		-
	264 V_{AC}	-		< 1.5 mA
Mechanical				
Case Cover / Chassis		SECC Steel	Aluminium	SECC Steel
Dimensions (L × W × H)	mm	77 × 51 × 28	178 × 97 × 38	215 × 120 × 61
	inch	3.03 × 2.01 × 1.10	7.01 × 3.82 × 1.50	8.46 × 4.72 × 2.40
Unit Weight	kg	0.16	0.54	1.51
	lb	0.35	1.19	3.33
Cooling System		Convection		Forced Air (Built-in Fan)
MTBF [3]		> 700,000 hrs		
Environment				
Operating Temperature [4]		-10°C to +70°C		-20°C to +70°C
Storage Temperature		-25°C to +85°C		-40°C to +75°C
Operating Humidity		5 to 95% RH (Non-Condensing)		
Operating Altitude		0 to 3,000 m (0 to 9,840 ft)		

Dimensions Reference



Notes
1) All models fulfill the test conditions for this range. DC input safety approval can be obtained upon request.
2) At 25°C ambient temperature by vertical mounting orientation.
3) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 115 V_{AC}, O/P: 100% load) for vertical mounting orientation. For PMC-12V600W1BA, MTBF calculations do not include fan life time.
4) Refer power de-rating in the product datasheet.
5) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

PMC (24 V, 48 V)

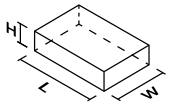
- Power will not de-rate for the entire input voltage range (except 600 W)
- Full corrosion resistant aluminium casing (except 600 W)
- Active PFC with high PF value (except dual output)
- Built-in fan speed control and fan lock protection (only 600 W)
- High MTBF > 700,000 hrs per Telcordia SR-332 (except PMC-24V600W1BA)
- Overvoltage / Overcurrent / Over Temperature / Short Circuit Protections

Applications

Building Automation | Process Automation | Factory Automation | Machine Automation | Test & Measurement | LED Lighting | Renewable Energy

Output		PMC-24V150W1B□	PMC-24V300W1BA	PMC-24V600W1BA	PMC-24V600W1RW
Output Voltage		24 V	V1: 24 V, V2 SB: 12 V	24 V	24 V
Output Voltage Range		22-28 V	V1: 22-28 V	21.6-26.4 V	21.6-27.6 V
Output Current		0-6.25 A	V1: 12.5 A (0-12.5 A) V2 SB: 0.5 A (0-0.5 A)	0-25.0 A (50.0 A for 5 s)	25.0 A
Output Power		150 W	300 W	600 W (1,200 W for 5 s)	600 W
PARD (20 MHz)		< 100 mVpp	V1: < 100 mVpp V2: < 200 mVpp	< 180 mVpp @ 0°C to 50°C, < 240 mVpp @ -20°C to 0°C	< 150 mVpp @ 0°C to 70°C, 180 mVpp typ. @ -20°C to 0°C
Hold-up Time	115 V_{AC}	> 30 ms	> 15 ms @ nominal input, 100% load	> 20 ms	20 ms typ.
	230 V_{AC}				
Input					
Phase Input		Single Phase			
Input Voltage Range		85-264 V_{AC} (DC input range 125-375 V_{DC}) [1]		85-264 V_{AC} (DC input range 120-370 V_{DC}) [1]	85-264 V_{AC}
Input Frequency		47-63 Hz			
Input Current	115 V_{AC}	< 1.7 A	< 4.0 A	< 6.5 A	6 A typ.
	230 V_{AC}	< 1.0 A	< 2.0 A	< 3.2 A	3 A typ.
Efficiency [2] at 100% Load	115 V_{AC}	> 89.0%	> 86.0%	> 86.0%	90.0% typ.
	230 V_{AC}	> 91.0%	> 88.0%	> 89.0%	92.0% typ.
Max Inrush Current (Cold Start)	115 V_{AC}	< 60 A	< 35 A	< 20 A	-
	230 V_{AC}	< 120 A	< 70 A	< 40 A	40 A typ.
Power Factor	115 V_{AC}	> 0.99			0.99 typ.
	230 V_{AC}	> 0.90	> 0.97	> 0.94	0.97 typ.
Leakage Current	240 V_{AC}	< 1 mA		< 1.5 mA	< 0.75 mA
	264 V_{AC}	-			
Mechanical					
Case Cover / Chassis		Aluminium		SECC Steel	SGCC
Dimensions (L × W × H)	mm	178 × 97 × 38	199 × 105 × 41	215 × 120 × 61	190 × 120 × 61
	inch	7.01 × 3.82 × 1.50	7.83 × 4.13 × 1.61	8.46 × 4.72 × 2.40	7.48 × 4.72 × 2.40
Unit Weight	kg	0.54	0.82	1.60	1.40
	lb	1.19	1.81	3.53	3.10
Cooling System		Convection	Forced Air (Built-in Fan)		
MTBF [3]		> 700,000 hrs		> 300,000 hrs	> 700,000 hrs
Environment					
Operating Temperature [4]		-10°C to +70°C		-20°C to +70°C	
Storage Temperature		-25°C to +85°C		-20°C to +75°C	-30°C to +75°C
Operating Humidity		5 to 95% RH (Non-Condensing)			20 to 95% RH (Non-Condensing)
Operating Altitude		0 to 5,000 m (0 to 16,400 ft)	0 to 3,000 m (0 to 9,840 ft)		0 to 5,000 m (0 to 16,400 ft)

Dimensions Reference



Notes
1) All models fulfill the test conditions for this range. DC input safety approval can be obtained upon request.
2) At 25°C ambient temperature by vertical mounting orientation.
3) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 115 V_{AC}, O/P: 100% load) for vertical mounting orientation. For PMC-24V300W1BA, PMC-24V600W1BA and PMC-48V600W1BA, MTBF calculations do not include fan life time.
4) Refer power de-rating in the product datasheet.
5) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

PMC-48V150W1BA	PMC-48V600W1BA	PMC-DSPV100W1A
48 V	48 V	V1: 24 V, V2: 5 V
44-53 V	43.2-52.8 V	V1: 22.8-26.4 V
0-3.125 A	0-12.5 A	V1: 2.7 A (0.3-4.0 A) V2: 7.0 A (0.8-7.0 A)
150 W	600 W	100 W
< 200 mVpp	< 300 mVpp	V1: < 200 mVpp, V2: < 80 mVpp
> 30 ms	> 20 ms	> 15 ms
		> 80 ms
	Single Phase	
85-264 V_{AC} (DC input range 125-375 V_{DC}) [1]	85-264 V_{AC} (DC input range 120-370 V_{DC}) [1]	85-264 V_{AC} (DC input range 125-375 V_{DC}) [1]
	47-63 Hz	
< 1.7 A	< 6.5 A	< 2.0 A
< 1.0 A	< 3.2 A	< 1.1 A
> 89.0%	> 87.0%	> 84.0%
> 91.0%	> 90.0%	> 86.0%
< 20 A	< 20 A	< 50 A
< 40 A	< 40 A	< 100 A
> 0.99	> 0.98	Conform to EN 61000-3-2
> 0.92	> 0.96	
< 1.5 mA	-	< 1 mA
-	TT/TN: < 3 mA, IT: < 4 mA	-
Aluminium	SECC Steel	Aluminium
178 × 97 × 38	215 × 120 × 61	178 × 97 × 38
7.01 × 3.82 × 1.50	8.46 × 4.72 × 2.40	7.01 × 3.82 × 1.50
0.53	1.54	0.52
1.17	3.40	1.15
Convection	Forced Air (Built-in Fan)	Convection
	> 700,000 hrs	
-10°C to +70°C	-20°C to +70°C	-10°C to +70°C
-25°C to +85°C	-40°C to +85°C	-25°C to +85°C
	5 to 95% RH (Non-Condensing)	
0 to 5,000 m (0 to 16,400 ft)	0 to 3,000 m (0 to 9,840 ft)	

PMR (4.2 V, 5 V)

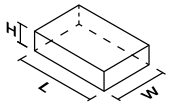
- Full corrosion resistant aluminium casing
- Built-in active PFC and conforms to harmonic current IEC/EN 61000-3-2, Class A and Class D
- Low profile design for 1U installation
- Built-in DC OK relay contact and redundancy operation (PMR-☐V320WDBA and PMR-☐V320WDCA)

Applications

Building Automation | Process Automation | Factory Automation | Machine Automation | Test & Measurement | Household Appliance

Output		PMR-4V320WC☐A	PMR-4V320WDAA	PMR-4V320WDGA	PMR-4V320WDBA	PMR-4V320WDCA
Output Voltage		4.2 V	4.2 V	4.2 V	4.2 V	4.2 V
Output Voltage Range		3.78-4.62 V	3.78-4.62 V	3.78-4.62 V	3.99-4.51 V (No potentiometer)	3.99-4.51 V (No potentiometer)
Output Current		60.0 A	60.0 A	60.0 A	60.0 A	60.0 A
Output Power		252 W	252 W	252 W	252 W	252 W
PARD (20 MHz)		< 150 mVpp				
Hold-up Time	115 V_{AC}	8 ms typ.				
	230 V_{AC}					
Input						
Phase Input		Single Phase				
Input Voltage Range		88-264 V_{AC}				
Input Frequency		47-63 Hz				
Input Current	115 V_{AC}	3.0 A typ.	4.5 A typ.	4.5 A typ.	4.5 A typ.	4.5 A typ.
	230 V_{AC}	1.5 A typ.	2.5 A typ.	2.5 A typ.	2.5 A typ.	2.5 A typ.
Efficiency [1] at 100% Load	115 V_{AC}	80.5% typ.	84.5% typ.		84.0% typ.	
	230 V_{AC}	83.5% typ.	86.5% typ.		86.0% typ.	
Max Inrush Current (Cold Start)	115 V_{AC}	20 A typ.				
	230 V_{AC}	40 A typ.				
Power Factor	115 V_{AC}	0.98 typ.				
	230 V_{AC}	0.95 typ.				
Leakage Current	240 V_{AC}	< 0.5 mA	< 1 mA			
Mechanical						
Case Cover / Chassis		Aluminium				
Dimensions (L × W × H)	mm	215 × 115 × 30	215 × 115 × 30	215 × 115 × 30	215 × 115 × 30	215 × 115 × 30
	inch	8.46 × 4.53 × 1.18	8.46 × 4.53 × 1.18	8.46 × 4.53 × 1.18	8.46 × 4.53 × 1.18	8.46 × 4.53 × 1.18
Unit Weight	kg	0.76	0.86	0.86	0.86	0.86
	lb	1.68	1.90	1.90	1.90	1.90
Cooling System		Forced Air (Built-in Fan)	Convection			
MTBF [2]		> 700,000 hrs				
Environment						
Operating Temperature [3]		-10°C to +70°C	-20°C to +70°C			
Storage Temperature		-40°C to +85°C				
Operating Humidity		5 to 95% RH (Non-Condensing)				
Operating Altitude		0 to 5,000 m (0 to 16,400 ft)				

Dimensions Reference



Notes
1) At 25°C ambient temperature by vertical mounting orientation.
2) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 100 V_{AC}, O/P: 100% load, Ta: 35°C). For PMR-4V320WC☐A and PMR-5V320WC☐A, MTBF calculation does not include fan life time.
3) Refer power de-rating in the product datasheet.
4) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

PMR-5V320WC□A	PMR-5V320WDAA	PMR-5V320WDGA	PMR-5V320WDBA	PMR-5V320WDCA
5 V	5 V	5 V	5 V	5 V
4.50-5.50 V	4.50-5.50 V	4.50-5.50 V	4.75-5.25 V (No potentiometer)	4.75-5.25 V (No potentiometer)
60.0 A	60.0 A	60.0 A	60.0 A	60.0 A
300 W	300 W	300 W	300 W	300 W
< 150 mVpp				
8 ms typ.				
Single Phase				
88-264 V_{AC}				
47-63 Hz				
4.5 A typ.	5.0 A typ.	5.0 A typ.	5. 0A typ.	5.0 A typ.
2.5 A typ.	2.5 A typ.	2.5 A typ.	2.5 A typ.	2.5 A typ.
81.0% typ.	86.0% typ.		85.0% typ.	
84.0% typ.	88.0% typ.		87.0% typ.	
20 A typ.				
40 A typ.				
0.98 typ.				
0.95 typ.				
< 0.5 mA	< 1 mA			
Aluminium				
215 × 115 × 30	215 × 115 × 30	215 × 115 × 30	215 × 115 × 30	215 × 115 × 30
8.46 × 4.53 × 1.18	8.46 × 4.53 × 1.18	8.46 × 4.53 × 1.18	8.46 × 4.53 × 1.18	8.46 × 4.53 × 1.18
0.76	0.86	0.86	0.86	0.86
1.68	1.90	1.90	1.90	1.90
Forced Air (Built-in Fan)	Convection			
> 700,000 hrs				
-10°C to +70°C	-20°C to +70°C			
-40°C to +85°C				
5 to 95% RH (Non-Condensing)				
0 to 5,000 m (0 to 16,400 ft)				

PMR (12 V, 24 V, 36 V, 48 V)

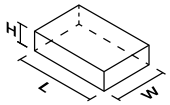
- Built-in active PFC circuit
- No load power consumption < 0.5 W
- 30 mm height low profile design
- IEC/EN 60335-1, IEC/EN 61558-1, and IEC/EN 61558-2-16 household appliance standards
- Wide operating temperature -30°C ~70°C (-40°C cold start)

Applications

Building Automation | Process Automation | Factory Automation | Machine Automation | Test & Measurement | Household Appliance

		NEW	NEW
Output		**PMR-12V320W1AT**	**PMR-24V320W1AT**
Output Voltage		12 V	24 V
Output Voltage Range		10.8-13.2 V	21.6-26.4 V
Output Current		26.7 A	13.4 A
Output Power		320.4 W	321.6 W
PARD (20 MHz)		< 150 mVpp @ 0°C to 70°C 450 mVpp typ. @ -30°C to 0°C	
Hold-up Time	115 V_{AC}	16 ms typ.	
	230 V_{AC}		
Input			
Phase Input		Single Phase	
Input Voltage Range		90-264 V_{AC}	
Input Frequency		47-63 Hz	
Input Current	115 V_{AC}	3.8 A typ.	3.8 A typ.
	230 V_{AC}	1.8 A typ.	1.8 A typ.
Efficiency [1] at 100% Load	230 V_{AC}	90.5% typ.	91.0% typ.
Max Inrush Current (Cold Start)	230 V_{AC}	50 A typ.	
Power Factor	115 V_{AC}	> 0.96	
	230 V_{AC}	> 0.93	
Leakage Current	240 V_{AC}	< 0.75 mA	
Mechanical			
Case Cover / Chassis		SGCC / Aluminium	
Dimensions (L × W × H)	mm	215 × 115 × 30	215 × 115 × 30
	inch	8.46 × 4.53 × 1.18	8.46 × 4.53 × 1.18
Unit Weight	kg	0.64	0.64
	lb	1.42	1.42
Cooling System		Forced Air (Built-in Fan)	
MTBF [2]		> 700,000 hrs	
Environment			
Operating Temperature [3]		-30°C to +70°C	
Storage Temperature		-40°C to +85°C	
Operating Humidity		20 to 90% (Non-Condensing)	
Operating Altitude		0 to 5,000 m (0 to 16,400 ft)	

Dimensions Reference



Notes
1) At 25°C ambient temperature by vertical mounting orientation.
2) MTBF as per Telcordia SR-332 (I/P: 230 V_{AC}, O/P: 100% load, Ta: 25°C). MTBF calculation does not include fan life time.
3) Refer power de-rating in the product datasheet.
4) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

NEW	NEW
PMR-36V320W1AT	**PMR-48V320W1AT**
36 V	48 V
32.4-39.6 V	43.2-52.8 V
8.9 A	6.7 A
320.4 W	321.6 W
< 200 mVpp @ 0°C to 70°C 600 mVpp typ. @ -30°C to 0°C	
16 ms typ.	
Single Phase	
90-264 V_{AC}	
47-63 Hz	
3.8 A typ.	3.8 A typ.
1.8 A typ.	1.8 A typ.
91.5% typ.	92.0% typ.
50 A typ.	
> 0.96	
> 0.93	
< 0.75 mA	
SGCC / Aluminium	
215 × 115 × 30	215 × 115 × 30
8.46 × 4.53 × 1.18	8.46 × 4.53 × 1.18
0.64	0.64
1.42	1.42
Forced Air (Built-in Fan)	
> 700,000 hrs	
-30°C to +70°C	
-40°C to +85°C	
20 to 90% (Non-Condensing)	
0 to 5,000 m (0 to 16,400 ft)	

PMF (4.2 V, 5 V, 24 V)

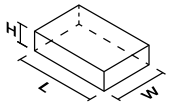
- Built-in active PFC and automatic fan speed control
- Full corrosion resistant aluminium casing
- Remote ON/OFF is available as an option
- Overvoltage / Overcurrent / Over Temperature / Short Circuit Protections

Applications

Process Automation | Factory Automation | Machine Automation | LED Lighting

Output		PMF-4V320WC□□	PMF-5V320WC□□	PMF-24V240WC□□	PMF-24V320WC□□
Output Voltage		4.2 V	5 V	24 V	24 V
Output Voltage Range		3.78-4.62 V	4.50-5.50 V	21.6-26.4 V	21.6-26.4 V
Output Current		55.0 A	55.0 A	10.0 A	13.3 A
Output Power		231 W	275 W	240 W	320 W
PARD (20 MHz)		< 150 mVpp			
Hold-up Time	115 V_{AC}	16 ms typ.		20 ms typ.	
	230 V_{AC}				
Input					
Phase Input		Single Phase			
Input Voltage Range		85-264 V_{AC}			
Input Frequency		47-63 Hz			
Input Current	115 V_{AC}	5.0 A typ.	5.0 A typ.	3.6 A typ.	5.0 A typ.
	230 V_{AC}	2.5 A typ.	2.5 A typ.	1.8 A typ.	2.5 A typ.
Efficiency [1] at 100% Load	230 V_{AC}	76.5% typ.	78.5% typ.	87.0% typ.	
Max Inrush Current (Cold Start)	115 V_{AC}	20 A typ.	30 A typ.	35 A typ.	20 A typ.
	230 V_{AC}	40 A typ.	50 A typ.	60 A typ.	40 A typ.
Power Factor	115 V_{AC}	0.97 typ.	0.98 typ.	0.99 typ.	0.98 typ.
	230 V_{AC}	0.94 typ.	0.95 typ.	0.95 typ.	0.95 typ.
Leakage Current	240 V_{AC}	< 1 mA		< 0.6 mA	< 1 mA
Mechanical					
Case Cover / Chassis		Aluminium			
Dimensions (L × W × H)	mm	215 × 115 × 50	215 × 115 × 50	190 × 93 × 50	215 × 115 × 50
	inch	8.46 × 4.53 × 1.97	8.46 × 4.53 × 1.97	7.48 × 3.66 × 1.97	8.46 × 4.53 × 1.97
Unit Weight	kg	0.86	0.86	0.66	0.84
	lb	1.90	1.90	1.46	1.85
Cooling System		Forced Air (Built-in Fan)			
MTBF [2]		> 700,000 hrs			
Environment					
Operating Temperature [3]		-10°C to +70°C			
Storage Temperature		-20°C to +85°C			
Operating Humidity		5 to 95% RH (Non-Condensing)			
Operating Altitude		0 to 5,000 m (0 to 16,400 ft)			

Dimensions Reference



Notes
1) At 25°C ambient temperature by vertical mounting orientation.
2) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 100 V_{AC}, O/P: 100% load, Ta: 35°C). MTBF calculations do not include fan life time.
3) Refer power de-rating in the product datasheet.
4) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

PMU (13.8 V, 27.6 V)

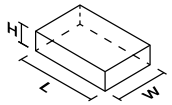
- AC input voltage range selectable by switch
- LED indicators for DC OK (Green) and Battery Reverse Polarity Connection (Red)
- Zero switch over time from loss of AC to battery operation
- Monitoring signals for AC OK, DC OK and Battery Low indication
- Overvoltage / Overcurrent / Over Temperature / Short Circuit Protections

Applications

Building Automation | Process Automation | Factory Automation | Machine Automation

Output		PMU-13V155W□BA	PMU-13V155W□CA	PMU-27V155W□BA	PMU-27V155W□CA
Output Voltage		V1: 13.8 V, B+: 13.3 V	V1: 13.8 V, B+: 13.3 V	V1: 27.6 V, B+: 27.1 V	V1: 27.6 V, B+: 27.1 V
Output Voltage Range		12-14 V	12-14 V	24-28 V	24-28 V
Output Current		V1: 9.5 A (0-11.0 A) B+: 1.5 A (0.5-1.5 A)	V1: 9.5 A (0-11.0 A) B+: 1.5 A (0.5-1.5 A)	PMU-27V155WCBA V1: 4.0 A (0-5.5 A) B+: 1.5 A (0.5-1.5 A) PMU-27V155WLBA V1: 4.3 A (0-5.5 A) B+: 1.2 A (0.50-1.2 A)	PMU-27V155WCCA V1: 4.0 A (0-5.5 A) B+: 1.5 A (0.5-1.5 A) PMU-27V155WLCA V1: 4.3 A (0-5.5 A) B+: 1.2 A (0.50-1.2 A)
Output Power		151 W	151 W	151 W	151 W
PARD (20 MHz)		< 150 mVpp @ 0°C to -20°C, < 100 mVpp @ > 0°C to 70°C			
Hold-up Time		20 ms without Battery at B+			
Input					
Phase Input		Single Phase			
Input Voltage Range		90-132 V_{AC}, 180-264 V_{AC} (Selectable by Switch)			
Input Frequency		47-63Hz			
Input Current	115 V_{AC}	< 2.5 A	< 2.5 A	< 2.5 A	< 2.5 A
	230 V_{AC}	< 1.5 A	< 1.5 A	< 1.5 A	< 1.5 A
Efficiency [1] at 100% Load	115 V_{AC}	> 85.0%		> 88.0%	
	230 V_{AC}	> 86.0%		> 89.0%	
Max Inrush Current (Cold Start)	115 V_{AC}	< 25 A			
	230 V_{AC}				
Power Factor		Conform to EN 61000-3-2			
Leakage Current	264 V_{AC}	< 0.5 mA			
Mechanical					
Case Cover / Chassis		SGCC / Aluminium			
Dimensions (L × W × H)	mm	178 × 97 × 38	178 × 97 × 38	178 × 97 × 38	178 × 97 × 38
	inch	7.01 × 3.82 × 1.50	7.01 × 3.82 × 1.50	7.01 × 3.82 × 1.50	7.01 × 3.82 × 1.50
Unit Weight	kg	0.59	0.60	0.59	0.60
	lb	1.30	1.32	1.30	1.32
Cooling System		Convection			
MTBF [2]		> 700,000 hrs			
Environment					
Operating Temperature [3]		-20°C to +70°C			
Storage Temperature		-40°C to +85°C			
Operating Humidity		5 to 95% RH (Non-Condensing)			
Operating Altitude		0 to 5,000 m (0 to 16,400 ft)			

Dimensions Reference



Notes
1) At 25°C ambient temperature by vertical mounting orientation.
2) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 115 V_{AC}, O/P: 100% load) for vertical mounting orientation.
3) Refer power de-rating in the product datasheet.
4) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

MEB (12 V, 24 V, 48 V)

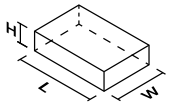
- High Power Density
- 2 × MOPP Isolation
- Safety Approvals to IEC 60601-1 Ed. 2 & 3.1
- Suitable for Type BF Medical Products
- Full Power up to 50°C Ambient
- Class B Conducted and Radiated EMI

Applications

Factory Automation | Machine Automation | Test & Measurement | Medical Equipment | Household Appliance

		NEW			
Output		**MEB-750A12□ AAA**	**MEB-500A24F AA**	**MEB-750A24□ AAA**	**MEB-750A48□ AAA**
Output Voltage		12 V	24 V	24 V	48 V
Output Current (Max)		58.4 A	21.0 A	31.25 A	15.63 A
Output Power		700 W	504 W	750 W	750 W
Load Regulation		< 2%	< 150mV	< 2%	
Ripple & Noise		1% pk-pk Vrated @ rated load	< 300mVpp @ 0°C to +50°C	1% pk-pk Vrated @ rated load	
Input					
Input Voltage Range		85-264 V_{AC}	90-264 V_{AC}	85-264 V_{AC}	
Input Frequency		47-63 Hz			
Efficiency	230 V_{AC} (50 Hz)	90.5% typ.	92.0% typ.	94.0% typ.	
Leakage Current [1]	264 V_{AC}	Input-PE: 0.3 mA typ. @ NC, 1 mA typ. @ SFC Output-PE: 0.1 mA typ. @ NC, 0.5 mA typ. @ SFC	Input-PE: < 0.1 mA @ NC, < 0.3 mA @ SFC Output-PE: < 0.1 mA @ NC, < 0.5 mA @ SFC	Input-PE: 0.3 mA typ. @ NC, 1 mA typ. @ SFC Output-PE: 0.1 mA typ. @ NC, 0.5 mA typ. @ SFC	
Mechanical					
Dimensions (L × W × H)	mm	177.8 × 101.6 × 40	165.3 × 85.2 × 41	177.8 × 101.6 × 40	177.8 × 101.6 × 40
	inch	7.00 × 4.00 × 1.57	6.50 × 3.35 × 1.61	7.00 × 4.00 × 1.57	7.00 × 4.00 × 1.57
Unit Weight	kg	1.10	0.66	1.10	1.10
	lb	2.43	1.46	2.43	2.43
MTBF [2]		> 500,000 hrs	> 700,000 hrs	> 500,000 hrs	
EMC & Emissions		EN 55011, EN 55032, FCC Title 47: Class B	EN 55011 & Compliant with EN 55032, FCC Title 47: Class B	EN 55011, EN 55032, FCC Title 47: Class B	
Environment					
Operating Temperature [3]		-20°C to +70°C			
Storage Temperature		-40°C to +85°C	-30°C to +80°C	-40°C to +85°C	
Operating Humidity		5 to 95% RH (Non-Condensing)	20 to 90% RH (Non-Condensing)	5 to 95% RH (Non-Condensing)	
Operating Altitude		0 to 5,000 m (0 to 16,400 ft)	IEC 60601-1: 0 to 3,000 m (0 to 9,840 ft) IEC 60950-1 & IEC 62368-1: 0 to 5,000 m (0 to 16,400 ft)	0 to 5,000 m (0 to 16,400 ft)	
Medical Rating					
Float Rating		BF			
MOPP		2 × MOPP			

Dimensions Reference



Notes
1) NC: normal condition, SFC: single fault condition.
2) MEB-500A24F, MTBF as per Telcordia SR-332 (: I/P: 115 V_{AC}, O/P: 100% load, Ta: 25°C).
MEB-750A12□, MEB-750A24□ and MEB-750A48□, MTBF as per Telcordia SR-332 (I/P: 115 V_{AC}, O/P: 100% load, Ta: 35°C).
3) Refer power de-rating in the product datasheet.

MEB (24 V, 42 V, 48 V)

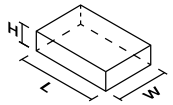
- Up to 1200 W in 5" × 8.03" × 1.59" package
- Full power from 90 V_{AC} to 264 V_{AC}, up to 50°C ambient
- 2 × MOPP isolation, Suitable for type BF medical products
- Current sharing and 5 V / 2 A standby output
- Class B Conducted and Radiated EMI
- PMBus Ver 1.3 supported
- Intelligent fan speed control

Applications

Factory Automation | Machine Automation | Test & Measurement | Medical Equipment | Household Appliance

Output		MEB-1K2A24T ABA	MEB-1K2A42T ABA	MEB-1K2A48T ABA
Output Voltage		24 V	42 V	48 V
Output Current (Max)		50.0 A	28.5 A	25.0 A
Output Power		1200 W	1200 W	1200 W
Load Regulation		2%		
Ripple & Noise		1% typ. pk-pk Vrated @ rated load		
Input				
Input Voltage Range		85-264 V_{AC}		
Input Frequency		47-63 Hz		
Efficiency	115 V_{AC} (60 Hz)	90.0% typ.	90.9% typ.	91.5% typ.
	230 V_{AC} (50 Hz)	93.0% typ.	93.2% typ.	94.0% typ.
Leakage Current [1]	264 V_{AC}	Input-PE: < 0.3 mA @ NC, < 1 mA @ SFC Output-PE: < 0.1 mA @ NC, < 0.5 mA @ SFC		
Mechanical				
Dimensions (L × W × H)	mm	204 × 127 × 40.5	204 × 127 × 40.5	204 × 127 × 40.5
	inch	8.03 × 5.0 × 1.59	8.03 × 5.0 × 1.59	8.03 × 5.0 × 1.59
Unit Weight	kg	1.50	1.50	1.50
	lb	3.30	3.30	3.30
MTBF [2]		> 500,000 hrs		
EMC & Emissions		EN 55011/EN 55032, FCC Title 47: Class B		
Environment				
Operating Temperature [3]		-20°C to +70°C		
Storage Temperature		-40°C to +85°C		
Operating Humidity		5 to 95% RH (Non-Condensing)		
Operating Altitude		0 to 5,000 m (0 to 16,400 ft)		
Medical Rating				
Float Rating		BF		
MOPP		2 × MOPP		

Dimensions Reference



Notes
1) NC: normal condition, SFC: single fault condition.
2) MTBF as per Telcordia SR-332 (I/P: 115 V_{AC}, O/P: 100% load, Ta: 35°C).
3) Refer power de-rating in the product datasheet.

Open Frame Power Supplies

PJT

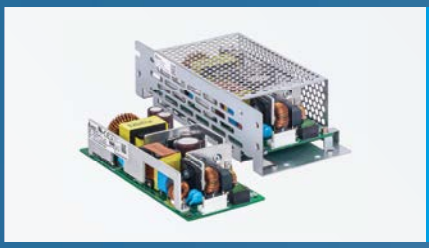
Standard industrial footprint

Power Range: 40-150 W

PJ

Low inrush current / low leakage current

Power Range: 15-150 W



PJB

Power Boost of 200% for 10 seconds

Power Range: 103.2-300 W

PJH

Power supply with household approvals

Power Range: 300 W

PJU

Power supply with DC-UPS function

Power Range: 60 W

PJL

Power supply with lighting approvals

Power Range: 200-600 W

Applications

Building Automation

Factory Automation

Machine Automation

Test & Measurement

LED Lighting

Household Appliance

PJT (12 V, 15 V)

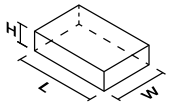
- Small standard footprint
- Low Leakage Current < 0.1 mA
- High MTBF > 700,000 hrs as per Telcordia SR-332
- Overvoltage / Overcurrent / Over Temperature / Short Circuit Protections

Applications

Building Automation | Factory Automation | Machine Automation | Test & Measurement

Output		PJT-12V40WBA□	PJT-12V65WBA□	PJT-12V100WBA□	PJT-12V100WBB□
Output Voltage		12 V	12 V	12 V	12 V
Output Current		3.33 A	5.0 A	8.33 A	6.67 A (Convection) 8.33 A (Forced Air)
Output Power		40 W	60 W	100 W	80 W (Convection) 100 W (Forced Air)
PARD (20 MHz)		< 120 mVpp			
Hold-up Time	115 V_{AC}	18 ms typ.	16 ms typ.	20 ms typ.	10 ms typ.
	230 V_{AC}	90 ms typ.	80 ms typ.		
Input					
Phase Input		Single Phase			
Input Voltage Range		90-264 V_{AC}			
Input Frequency		47-63 Hz			
Input Current	115 V_{AC}	0.85 A typ.	1.50 A typ.	1.50 A typ.	2.50 A typ.
Efficiency [1] at 100% Load	115 V_{AC}	85.0% typ.	86.0% typ.	86.5% typ.	86.0% typ.
	230 V_{AC}	86.0% typ.	86.5% typ.		88.0% typ.
Max Inrush Current (Cold Start)	115 V_{AC}	30 A typ.			
	230 V_{AC}	60 A typ.			
Power Factor		Conform to EN 61000-3-2			
Leakage Current	240 V_{AC}	< 0.1 mA			
Mechanical					
Case Cover / Chassis		-			
Dimensions (L × W × H)	mm	76.2 × 50.8 × 22.9	101.6 × 50.8 × 30	127 × 76.2 × 31	101.6 × 50.8 × 31.8
	inch	3.00 × 2.00 × 0.90	4.00 × 2.00 × 1.18	5.00 × 3.00 × 1.22	4.00 × 2.00 × 1.25
Unit Weight	kg	0.08	0.13	0.21	0.15
	lb	0.18	0.29	0.46	0.33
Cooling System		Convection			Convection / Forced Air
MTBF [2]		> 700,000 hrs			
Environment					
Operating Temperature [3]		-10°C to +70°C			
Storage Temperature		-40°C to +85°C			
Operating Humidity		10 to 95% RH (Non-Condensing)			
Operating Altitude		0 to 5,000 m (0 to 16,400 ft)			

Dimensions Reference



Notes
1) At 25°C ambient temperature.
2) MTBF as per Telcordia SR-332 (I/P: 115 V_{AC}, O/P: 100% load).
3) Refer power de-rating in the product datasheet.
4) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

PJT-15V40WBA□	PJT-15V65WBA□	PJT-15V100WBA□	PJT-15V100WBB□
15 V	15 V	15 V	15 V
2.67 A	4.2 A	6.67 A	5.33 A (Convection) 6.67 A (Forced Air)
40 W	63 W	100 W	80 W (Convection) 100 W (Forced Air)
< 150 mVpp			
18 ms typ. 90 ms typ.	16 ms typ. 80 ms typ.	20 ms typ.	10 ms typ.
Single Phase			
90-264 V_{AC}			
47-63 Hz			
0.85 A typ.	1.50 A typ.	1.50 A typ.	2.50 A typ.
86.0% typ. 87.0% typ.	87.0% typ. 88.5% typ.	87.5% typ.	87.0% typ. 89.0% typ.
30 A typ.			
60 A typ.			
Conform to EN 61000-3-2			
< 0.1 mA			
-			
76.2 × 50.8 × 22.9	101.6 × 50.8 × 30	127 × 76.2 × 31	101.6 × 50.8 × 31.8
3.00 × 2.00 × 0.90	4.00 × 2.00 × 1.18	5.00 × 3.00 × 1.22	4.00 × 2.00 × 1.25
0.08	0.13	0.21	0.15
0.18	0.29	0.46	0.33
Convection			Convection / Forced Air
> 700,000 hrs			
-10°C to +70°C			
-40°C to +85°C			
10 to 95% RH (Non-Condensing)			
0 to 5,000 m (0 to 16,400 ft)			

PJT (18 V, 24 V, 27 V)

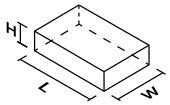
- Small standard footprint
- Low Leakage Current
- High MTBF > 700,000 hrs as per Telcordia SR-332
- Overvoltage / Overcurrent / Over Temperature / Short Circuit Protections

Applications

Building Automation | Factory Automation | Machine Automation | Test & Measurement

Output		PJT-18V40WBA□	PJT-18V65WBA□	PJT-18V100WBA□	PJT-18V100WBB□
Output Voltage		18 V	18 V	18 V	18 V
Output Current		2.22 A	3.61 A	5.55 A	4.44 A (Convection) 5.55 A (Forced Air)
Output Power		40 W	65 W	100 W	80 W (Convection) 100 W (Forced Air)
PARD (20 MHz)		< 180 mVpp			
Hold-up Time	115 V_{AC}	18 ms typ.	16 ms typ.	20 ms typ.	10 ms typ.
	230 V_{AC}	90 ms typ.	80 ms typ.		
Input					
Phase Input		Single Phase			
Input Voltage Range		90-264 V_{AC}			
Input Frequency		47-63 Hz			
Input Current	115 V_{AC}	0.85 A typ.	1.50 A typ.	1.50 A typ.	2.50 A typ.
	230 V_{AC}	-			
Efficiency [1] at 100% Load	115 V_{AC}	86.0% typ.	87.0% typ.	87.5% typ.	87.0% typ.
	230 V_{AC}		88.0% typ.		89.0% typ.
Max Inrush Current (Cold Start)	115 V_{AC}	30 A typ.	30 A typ.	30 A typ.	30 A typ.
	230 V_{AC}	60 A typ.	60 A typ.	60 A typ.	60 A typ.
Power Factor	115 V_{AC}	Conform to EN 61000-3-2			
	230 V_{AC}				
Leakage Current	240 V_{AC}	< 0.1 mA			
	264 V_{AC}	-			
Mechanical					
Case Cover / Chassis		-			
Dimensions (L × W × H)	mm	76.2 × 50.8 × 22.9	101.6 × 50.8 × 30	127 × 76.2 × 31	101.6 × 50.8 × 31.8
	inch	3.00 × 2.00 × 0.90	4.00 × 2.00 × 1.18	5.00 × 3.00 × 1.22	4.00 × 2.00 × 1.25
Unit Weight	kg	0.08	0.13	0.21	0.15
	lb	0.18	0.29	0.46	0.33
Cooling System		Convection			Convection / Forced Air
MTBF [2]		> 700,000 hrs			
Environment					
Operating Temperature [3]		-10°C to +70°C			
Storage Temperature		-40°C to +85°C			
Operating Humidity		10 to 95% RH (Non-Condensing)			
Operating Altitude		0 to 5,000 m (0 to 16,400 ft)			

Dimensions Reference



Notes
1) At 25°C ambient temperature.
2) MTBF as per Telcordia SR-332 (I/P: 115 V_{AC}, O/P: 100% load).
3) Refer power de-rating in the product datasheet.
4) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

PJT-24V40WBA□	PJT-24V65WBA□	PJT-24V100WBA□	PJT-24V100WBB□	PJT-27V150WBNA
24 V	24 V	24 V	24 V	V1: 27 V, V_{SB}: 12 V
1.66 A	2.71 A	4.17 A	3.33 A (Convection) 4.17 A (Forced Air)	V1: 5.55 A V_{SB}: 0.5 A
40 W	65 W	100 W	80 W (Convection) 100 W (Forced Air)	V1: 150 W V_{SB}: 6 W
< 240 mVpp				V1: < 150 mVpp, V_{SB}: < 75 mVpp
18 ms typ.	16 ms typ.	20 ms typ.	10 ms typ.	> 40 ms
90 ms typ.	80 ms typ.			
Single Phase				
90-264 V_{AC}				85-264 V_{AC}
47-63 Hz				
0.85 A typ.	1.50 A typ.	1.50 A typ.	2.50 A typ.	< 1.80 A
-				< 0.90 A
86.0% typ.	87.0% typ.	88.0% typ.	88.0% typ.	> 88.5%
87.0% typ.			89.0% typ.	> 89.5%
30 A typ.				< 50 A
60 A typ.				< 100 A
Conform to EN 61000-3-2				> 0.99
				> 0.93
< 0.1 mA				-
-				< 0.25 mA
-				
76.2 × 50.8 × 22.9	101.6 × 50.8 × 30	127 × 76.2 × 31	101.6 × 50.8 × 31.8	127 × 76.2 × 36.5
3.00 × 2.00 × 0.90	4.00 × 2.00 × 1.18	5.00 × 3.00 × 1.22	4.00 × 2.00 × 1.25	5.00 × 3.00 × 1.44
0.08	0.13	0.21	0.15	0.37
0.18	0.29	0.46	0.33	0.82
Convection			Convection / Forced Air	Convection
> 700,000 hrs				
-10°C to +70°C				
-40°C to +85°C				
10 to 95% RH (Non-Condensing)				5 to 95% RH (Non-Condensing)
0 to 5,000 m (0 to 16,400 ft)				

PJ (5 V, 12 V)

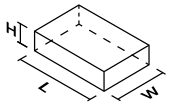
- High PF > 0.97 (for 50 W and above)
- Low Inrush Current / Low Leakage Current
- Conforms to harmonic current IEC/EN 61000-3-2, Class A; Class A and Class D for 50 W and above
- Conformal coating on PCBAs to protect against common dust and chemical pollutants
- Versatile configuration options: Open Frame, L Frame, Enclosed
- Remote ON/OFF option for selected models
- Long life capacitors

Applications

Building Automation | Factory Automation | Machine Automation | Test & Measurement

Output		PJ-5V15W□NA	PJ-12V15W□NA	PJ-12V30W□NA
Output Voltage		5 V	12 V	12 V
Output Voltage Range		4.50-5.50 V	10.8-13.2 V	10.8-13.2 V
Output Current		3.0 A	1.3 A	2.5 A
Output Power		15 W	15.6 W	30 W
PARD (20 MHz)		< 120 mVpp	< 150 mVpp	
Hold-up Time	100 V_{AC}	20 ms typ.		
Input				
Phase Input		Single Phase		
Input Voltage Range		85-264 V_{AC}		
Input Frequency		47-63 Hz		
Input Current	100 V_{AC}	0.35 A typ.	0.35 A typ.	0.65 A typ.
	200 V_{AC}	0.20 A typ.	0.20 A typ.	0.35 A typ.
Efficiency [1] at 100% Load	100 V_{AC}	78.0% typ.	81.0% typ.	83.0% typ.
	200 V_{AC}	79.5% typ.	82.5% typ.	85.0% typ.
Max Inrush Current (Cold Start)	100 V_{AC}	15 A typ.		
	200 V_{AC}	30 A typ.		
Power Factor	100 V_{AC}	Conform to EN 61000-3-2		
	200 V_{AC}			
Leakage Current	100 V_{AC}	< 0.1 mA		
	240 V_{AC}	< 0.2 mA		
Mechanical				
Case Cover / Chassis		SGCC		
Dimensions [2] (L × W × H)	mm	87.5 × 50 × 22	87.5 × 50 × 22	105 × 50 × 25.6
	inch	3.44 × 1.97 × 0.87	3.44 × 1.97 × 0.87	4.13 × 1.97 × 1.01
Unit Weight [2]	kg	0.06	0.06	0.11
	lb	0.13	0.13	0.24
Cooling System		Convection		
MTBF [3]		> 200,000 hrs		
Environment				
Operating Temperature [4]		-10°C to +70°C		
Storage Temperature		-25°C to +75°C		
Operating Humidity		5 to 95% RH (Non-Condensing)		
Operating Altitude		0 to 5,000 m (0 to 16,400 ft)		

Dimensions Reference



Notes
1) At 25°C ambient temperature.
2) Open Frame (without chassis and cover).
3) MTBF as per JEITA RCR-9102B.
4) Refer power de-rating in the product datasheet.
5) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

PJ-12V50W□NA	PJ-12V100W□□A	PJ-12V150W□□A
12 V	12 V	12 V
10.8-13.2 V	10.8-13.2 V	10.8-13.2 V
4.3 A	8.5 A	12.5 A
51.6 W	102 W	150 W
< 150 mVpp		
20 ms typ.		
Single Phase		
85-264 V_{AC}		
47-63 Hz		
0.65 A typ.	1.30 A typ.	1.90 A typ.
0.35 A typ.	0.65 A typ.	0.95 A typ.
83.0% typ.	85.0% typ.	88.0% typ.
85.0% typ.	87.5% typ.	91.0% typ.
15 A typ.		
30 A typ.		
0.98 typ.	0.99 typ.	
0.97 typ.	0.98 typ.	0.97 typ.
< 0.1 mA	< 0.2 mA	
< 0.2 mA	< 0.4 mA	
SGCC		
132 × 50 × 26.6	155 × 62 × 33.5	160 × 75 × 37
5.20 × 1.97 × 1.05	6.10 × 2.44 × 1.32	6.30 × 2.95 × 1.46
0.16	0.26	0.30
0.35	0.57	0.66
Convection		
> 200,000 hrs		
-10°C to +70°C		
-25°C to +75°C		
5 to 95% RH (Non-Condensing)		
0 to 5,000 m (0 to 16,400 ft)		

PJ (24 V, 48 V)

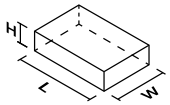
- High PF > 0.97 (for 50 W and above)
- Low Inrush Current / Low Leakage Current
- Conforms to harmonic current IEC/EN 61000-3-2, Class A; Class A and Class D for 50 W and above
- Conformal coating on PCBAs to protect against common dust and chemical pollutants
- Versatile configuration options: Open Frame, L Frame, Enclosed
- Remote ON/OFF option for selected models
- Long life capacitors

Applications

Building Automation | Factory Automation | Machine Automation | Test & Measurement

Output		PJ-24V30W□NA	PJ-24V50W□NA
Output Voltage		24 V	24 V
Output Voltage Range		21.6-26.4 V	21.6-26.4 V
Output Current		1.3 A	2.1 A
Output Power		31.2 W	50.4 W
PARD (20 MHz)		< 150 mVpp	
Hold-up Time	100 V_{AC}	20 ms typ.	
Input			
Phase Input		Single Phase	
Input Voltage Range		85-264 V_{AC}	
Input Frequency		47-63 Hz	
Input Current	100 V_{AC}	0.65 A typ.	0.65 A typ.
	200 V_{AC}	0.35 A typ.	0.35 A typ.
Efficiency [1] at 100% Load	100 V_{AC}	85.0% typ.	84.5% typ.
	200 V_{AC}	86.0% typ.	87.0% typ.
Max Inrush Current (Cold Start)	100 V_{AC}	15 A typ.	
	200 V_{AC}	30 A typ.	
Power Factor	100 V_{AC}	Conform to EN 61000-3-2	0.98 typ.
	200 V_{AC}		0.97 typ.
Leakage Current	100 V_{AC}	< 0.1 mA	
	240 V_{AC}	< 0.2 mA	
Mechanical			
Case Cover / Chassis		SGCC	
Dimensions [2] (L × W × H)	mm	105 × 50 × 25.6	132 × 50 × 26.6
	inch	4.13 × 1.97 × 1.01	5.20 × 1.97 × 1.05
Unit Weight [2]	kg	0.11	0.16
	lb	0.24	0.35
Cooling System		Convection	
MTBF [3]		> 200,000 hrs	
Environment			
Operating Temperature [4]		-10°C to +70°C	
Storage Temperature		-25°C to +75°C	
Operating Humidity		5 to 95% RH (Non-Condensing)	
Operating Altitude		0 to 5,000 m (0 to 16,400 ft)	

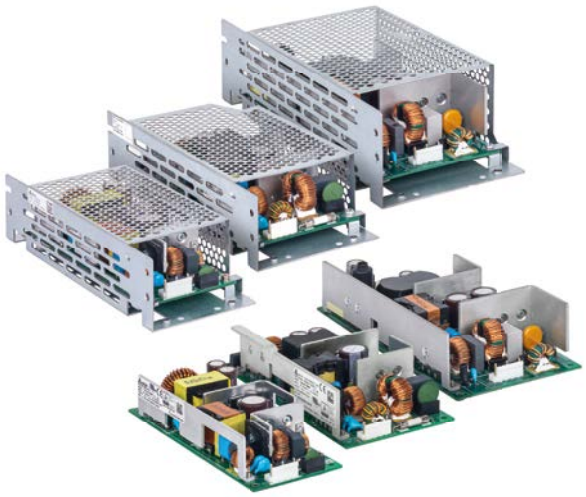
Dimensions Reference



Notes
1) At 25°C ambient temperature.
2) Open Frame (without chassis and cover).
3) MTBF as per JEITA RCR-9102B.
4) Refer power de-rating in the product datasheet.
5) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

PJ-24V100W□□A	PJ-24V150W□□A	PJ-48V50W□NA
24 V	24 V	48 V
21.6-26.4 V	21.6-26.4 V	43.2-52.8 V
4.3 A	6.3 A	1.1 A
103.2 W	150 W	52.8 W
< 150 mVpp		< 250 mVpp
20 ms typ.		
Single Phase		
85-264 V_{AC}		
47-63 Hz		
1.30 A typ.	1.90 A typ.	0.65 A typ.
0.65 A typ.	0.95 A typ.	0.35 A typ.
86.0% typ.	88.0% typ.	83.0% typ.
89.0% typ.	91.0% typ.	85.0% typ.
15 A typ.		
30 A typ.		
0.99 typ.		0.98 typ.
0.98 typ.		0.97 typ.
< 0.2 mA		< 0.1 mA
< 0.4 mA		< 0.2 mA
SGCC		
155 × 62 × 33.5	160 × 75 × 37	132 × 50 × 26.6
6.10 × 2.44 × 1.32	6.30 × 2.95 × 1.46	5.20 × 1.97 × 1.05
0.26	0.29	0.16
0.57	0.64	0.35
Convection		
> 200,000 hrs		
-10°C to +70°C		
-25°C to +75°C		
5 to 95% RH (Non-Condensing)		
0 to 5,000 m (0 to 16,400 ft)		

PJB (24 V)



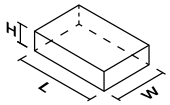
- Power Boost of 200% for 10 seconds
- High PF > 0.97
- Low Inrush Current / Low Leakage Current
- Conformal coating on PCBAs to protect against common dust and chemical pollutants
- Versatile configuration options: Open Frame, L Frame, Enclosed
- Remote ON/OFF option for selected models
- Design compliant with Japan PSE (DENAN) for 150 W - 300 W

Applications

Factory Automation | Machine Automation | Test & Measurement

Output		PJB-24V100W□□A	PJB-24V150W□□A	PJB-24V240W□□□	PJB-24V300W□□□
Output Voltage		24 V	24 V	24 V	24 V
Output Voltage Range		21.6-26.4 V	21.6-26.4 V	21.6-26.4 V	21.6-26.4 V
Output Current		4.3 A (8.6 A for 10 s)	6.3 A (12.6 A for 10 s)	10.0 A (20.0 A for 10 s)	12.5 A (22.5 A for 10 s)
Output Power		103.2 W (206.4 W for 10 s)	151.2 W (302.4 W for 10 s)	240 W (480 W for 10 s)	300 W (600 W for 10 s)
PARD (20 MHz)		< 150 mVpp			
Hold-up Time	100 V_{AC}	20 ms typ.			
Input					
Phase Input		Single Phase			
Input Voltage Range		85-264 V_{AC}			
Input Frequency		47-63 Hz			
Input Current	100 V_{AC}	1.30 A typ.	1.90 A typ.	2.80 A typ.	4.10 A typ.
	200 V_{AC}	0.65 A typ.	0.95 A typ.	1.50 A typ.	2.00 A typ.
Efficiency [1] at 100% Load	100 V_{AC}	86.5% typ.	88.0% typ.	91.0% typ.	
	200 V_{AC}	89.0% typ.	90.5% typ.	92.5% typ.	93.5% typ.
Max Inrush Current (Cold Start)	100 V_{AC}	15 A typ.			
	200 V_{AC}	30 A typ.			
Power Factor	100 V_{AC}	0.98 typ.			0.99 typ.
	200 V_{AC}	0.97 typ.	0.95 typ.	0.97 typ.	0.95 typ.
Leakage Current	100 V_{AC}	< 0.2 mA			
	240 V_{AC}	< 0.4 mA			
Mechanical					
Case Cover / Chassis		SGCC			
Dimensions [2] (L × W × H)	mm	155 × 62 × 33.5	160 × 75 × 37	180 × 84 × 42	222 × 95 × 53.6
	inch	6.10 × 2.44 × 1.32	6.30 × 2.95 × 1.46	7.09 × 3.31 × 1.65	8.74 × 3.74 × 2.11
Unit Weight [2]	kg	0.26	0.31	0.44	0.64
	lb	0.57	0.68	0.97	1.41
Cooling System		Convection			
MTBF [3]		> 200,000 hrs			
Environment					
Operating Temperature [4]		-10°C to +70°C			
Storage Temperature		-25°C to +75°C		-25°C to +80°C	
Operating Humidity		5 to 90% RH (Non-Condensing)			
Operating Altitude		0 to 5,000 m (0 to 16,400 ft)		ITE Application: 0 to 5,000 m (0 to 16,400 ft)	0 to 5,000 m (0 to 16,400 ft)

Dimensions Reference



Notes
1) At 25°C ambient temperature.
2) Open Frame (without chassis and cover).
3) MTBF as per JEITA RCR-9102B.
4) Refer power de-rating in the product datasheet.
5) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

PJH (24 V, 36 V)

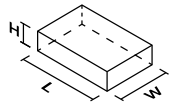
- Household approval to IEC/EN 60335-1
- Available for Class I or Class II (double isolation) configuration
- 300 W with fan cooled and up to 240 W convection cooled
- Standard industrial footprint of 3" × 5"
- Built-in active PFC, remote ON/OFF, remote sense, power good signal
- No load input power consumption < 0.5 W and low earth leakage current < 0.75 mA

Applications

Household Appliance

Output		PJH-24V300WBB□	PJH-24V300WBC□	PJH-36V300WBB□	PJH-36V300WBC□
Output Voltage		V1: 24 V, V_{SB}: 5 V	V1: 24 V, V_{SB}: 12 V	V1: 36 V, V_{SB}: 5 V	V1: 36V, V_{SB}: 12 V
Output Voltage Range		V1: 22.8-25.2 V, V_{SB}: Fixed	V1: 22.8-25.2 V, V_{SB}: Fixed	V1: 34.2-37.8 V, V_{SB}: Fixed	V1: 34.2-37.8 V, V_{SB}: Fixed
Output Current		V1: 0-12.5 A V_{SB}: 0-1.2 A	V1: 0-12.5 A V_{SB}: 0-0.5 A	V1: 0-8.3 A V_{SB}: 0-1.2 A	V1: 0-8.3 A V_{SB}: 0-0.5 A
Output Power		240 W (Convection) 300 W (with 10 CFM Forced Air)	240 W (Convection) 300 W (with 10 CFM Forced Air)	240 W (Convection) 300 W (with 10 CFM Forced Air)	240 W (Convection) 300 W (with 10 CFM Forced Air)
PARD (20 MHz)		V1: < 240 mVpp, V_{SB}: < 120 mVpp		V1: < 360 mVpp, V_{SB}: < 120 mVpp	
Hold-up Time	115 V_{AC}	> 12 ms (240 W)			
	230 V_{AC}	> 10 ms (300 W)			
Input					
Phase Input		Single Phase			
Input Voltage Range		90-264 V_{AC}			
Input Frequency		47-63 Hz			
Input Current	115 V_{AC}	< 4.0 A	< 4.0 A	< 4.0 A	< 4.0 A
	230 V_{AC}	< 2.0 A	< 2.0 A	< 2.0 A	< 2.0 A
Efficiency [1] at 100% Load	115 V_{AC}	> 93.0%			
	230 V_{AC}	> 94.0%			
Max Inrush Current (Cold Start)	115 V_{AC}	< 20 A			
	230 V_{AC}	< 40 A			
Power Factor	115 V_{AC}	> 0.95			
	230 V_{AC}				
Leakage Current	240 V_{AC}	< 0.75 mA			
Mechanical					
Case Cover / Chassis		–			
Dimensions (L × W × H)	mm	127 × 76.2 × 35.8	127 × 76.2 × 35.8	127 × 76.2 × 35.8	127 × 76.2 × 35.8
	inch	5.00 × 3.00 × 1.41	5.00 × 3.00 × 1.41	5.00 × 3.00 × 1.41	5.00 × 3.00 × 1.41
Unit Weight	kg	0.45	0.45	0.45	0.45
	lb	0.99	0.99	0.99	0.99
Cooling System		Convection / Forced Air			
MTBF [2]		> 700,000 hrs			
Environment					
Operating Temperature [3]		-25°C to +70°C			
Storage Temperature		-40°C to +85°C			
Operating Humidity		5 to 95% RH (Non-Condensing)			
Operating Altitude		PD3: 0 to 5,000 m (0 to 16,400 ft) PD2: 0 to 3,000 m (0 to 9,840 ft)			

Dimensions Reference



Notes
1) At 25°C ambient temperature.
2) MTBF as per Telcordia SR-332 (I/P: 115 Vac, O/P: 100% load).
3) Refer power de-rating in the product datasheet.
4) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

PJU (13.8 V, 27.6 V)

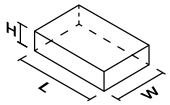
- Zero switch over time from loss of AC to battery operation
- Protection against reverse polarity battery connection
- Built-in diagnostic monitoring for AC OK and Battery Low status
- Overvoltage / Overcurrent / Over Temperature / Short Circuit Protections
- Built-in over current and short circuit protection in Buffering (battery discharging) mode operation

Applications

Building Automation

Output		PJU-13V60W□A□	PJU-13V60W□B□	PJU-27V60W□A□	PJU-27V60W□B□
Output Voltage		V1: 13.8 V, B+: 13.6 V	V1: 13.8 V, B+: 13.6 V	V1: 27.6 V, B+: 27.4 V	V1: 27.6 V, B+: 27.4 V
Output Voltage Range		V1: 13.52-14.00 V	V1: 13.52-14.00 V	V1: 27.04-28.00 V	V1: 27.04-28.00 V
Output Current		V1: 3.9 A, B+: 0.4 A	V1: 3.9 A, B+: 0.4 A	V1: 1.75 A, B+: 0.4 A	V1: 1.75 A, B+: 0.4 A
Output Power		60 W	60 W	60 W	60 W
PARD (20 MHz)		< 100 mVpp			
Hold-up Time (100% Load)	115 V_{AC}	> 10 ms	> 10 ms	> 10 ms	> 10 ms
Input					
Phase Input		Single Phase			
Input Voltage Range		90-264 V_{AC}			
Input Frequency		47-63 Hz			
Input Current	115 V_{AC}	< 1.2 A	< 1.2 A	< 1.2 A	< 1.2 A
	230 V_{AC}	< 0.8 A	< 0.8 A	< 0.8 A	< 0.8 A
Efficiency [1] at 100% Load	115 V_{AC}	> 85.0%		> 88.0%	
	230 V_{AC}	> 86.0%		> 89.0%	
Max Inrush Current (Cold Start)	115 V_{AC}	< 60 A			
	230 V_{AC}				
Power Factor		Conform to EN 61000-3-2			
Leakage Current (264 V_{AC})	TT/TN	< 0.5 mA			
	IT	< 1.0 mA			
Mechanical					
Case Cover / Chassis		SECC Steel			
Dimensions [2] (L × W × H)	mm	101.6 × 50.8 × 30.6	101.6 × 50.8 × 30.6	101.6 × 50.8 × 30.6	101.6 × 50.8 × 30.6
	inch	4.00 × 2.00 × 1.20	4.00 × 2.00 × 1.20	4.00 × 2.00 × 1.20	4.00 × 2.00 × 1.20
Unit Weight [2]	kg	0.12	0.12	0.12	0.12
	lb	0.26	0.26	0.26	0.26
Cooling System		Convection			
MTBF [3]		> 350,000 hrs			
Environment					
Operating Temperature [4]		-20°C to +70°C			
Storage Temperature		-40°C to +85°C			
Operating Humidity		5 to 95% RH (Non-Condensing)			
Operating Altitude		0 to 5,000 m (0 to 16,400 ft)			

Dimensions Reference



Notes
1) At 25°C ambient temperature.
2) Open frame (without chassis and cover).
3) MTBF as per Telcordia SR-332 (I/P: 115 V_{AC} & 230 V_{AC}, O/P: 100% load).
4) Refer power de-rating in the product datasheet.
5) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

PJL (48 V)

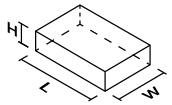
- Lighting approvals to UL 8750, IEC 61347-2-13
- Low inrush current < 20 A
- Up to 90.0% efficiency
- Low earth leakage current < 500 µA
- Extreme low temperature operation at -40°C

Applications

LED Lighting

Output		PJL-48V200WBAA	PJL-48V400WBAA	PJL-48V600WLAA
Output Voltage		48 V	48 V	48 V
Output Voltage Range		48-50 Vdc	48-50 Vdc	48-50 Vdc
Output Current		0-4.17 A	0-8.33 A	0-12.5 A
Output Power		150 W (Convection) 200 W (with 400 LFM Forced Air)	200 W (Convection) 400 W (with 400 LFM Forced Air)	300 W (Convection) 600 W (with 600 LFM Forced Air)
PARD (20 MHz) [1]		< 480 mVpp	< 680 mVpp	< 880 mVpp
Hold-up Time (100% Load)	115 V_{AC}	> 5 ms		> 16 ms
	230 V_{AC}			
Input				
Phase Input		Single Phase		
Input Voltage Range		85-305 V_{AC}		
Input Frequency		47-63 Hz		
Input Current	115 V_{AC}	< 2.20 A	< 4.74 A	< 6.5 A
Efficiency at 100% Load [2]	230 V_{AC}	> 85.0%		> 87.5%
	230 V_{AC}	> 90.0%		
Max Inrush Current (Cold Start)	230 V_{AC}	< 20 A		< 12 A
Power Factor	115 V_{AC}	> 0.95		
	230 V_{AC}			
Leakage Current		< 500 µA		
Mechanical				
Case Cover / Chassis		-		
Dimensions (L x W x H)	mm	127.6 × 76.2 × 34.8	127 × 76.6 × 40.8	177.8 × 101.6 × 41.0
	inch	5.02 × 3.00 × 1.38	5.00 × 3.02 × 1.61	7.00 × 4.00 × 1.61
Unit Weight	kg	0.42	0.44	0.82
	lb	0.93	0.97	1.80
Cooling System		Convection / Forced Air		
MTBF [3]		> 500,000 hrs		
Environment				
Operating Temperature [4]		-40°C to +70°C	-40°C to +80°C	
Storage Temperature		-40°C to +85°C		
Operating Humidity		5 to 95% RH (Non-Condensing)		
Operating Altitude		0 to 5,000 m (0 to 16,400 ft)		

Dimensions Reference



Notes
1) PARD is measured with an AC coupling mode, 5 cm wires, and in parallel with 0.1µF ceramic capacitor & 47 µF electrolytic capacitor.
2) At 25°C ambient temperature by vertical mounting orientation.
3) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 115 V_{AC}, O/P: 100% load).
4) Refer power de-rating in the product datasheet.
5) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

DIN Rail Modules

Redundancy Module

N+1 redundancy allows a system to continue operating when one power supply unit fails unexpectedly

Current Range: 20-40 A

Buffer Module

Allows a system to continue operating during power disruptions lasting from milliseconds to seconds

Current Range: 20-40 A

DC-UPS Module

Allows a system to continue operating during power failures lasting from minutes to hours

Current Range: 10-40 A

Battery Module

Designed to support 2 x 12 V 7.2 AH lead-acid battery in series for 24 V system

Applications

Building Automation

Process Automation

Factory Automation

Machine Automation

Renewable Energy

Redundancy Module

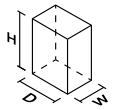
- Wide input and output range of 22-60 V_{DC}
- Very wide operating temperature from -40°C to +80°C
- Built-in 2 channel DC OK signal and alarm relay contact
- Support N+1 Redundancy connection
- Conformal coating on PCBAs to protect against common dust and chemical pollutants
- Hazardous Locations approval to ATEX and Class I, Div 2
- IP20 Certified

Applications

Process Automation | Machine Automation | Renewable Energy

Output		DRR-20□	DRR-40□
Output Current		Normal mode = 0-20 Amps; Short Circuit or Overload = 25 Amps max	Normal mode = 0-40 Amps; Short Circuit or Overload = 50 Amps max
Voltage Drop (V_{in} - V_{out})		Typical 0.65 V	
Input			
Input Voltage Range		22-60 V_{DC}	
Input Current		(1+1 Redundancy) = Nom. 2 x 12.5 Amps (N+1 Redundancy) = Nom. 2 x 10 Amps (Single use) = Nom. 20 Amps	(1+1 Redundancy) = Nom. 2 x 25 Amps (N+1 Redundancy) = Nom. 2 x 20 Amps (Single use) = Nom. 40 Amps
Mechanical			
Case Cover / Chassis		Aluminium	
Dimensions (H × W × D)	mm	121 × 50 × 122.1	121 × 50 × 122.1
	inch	4.76 × 1.97 × 4.81	4.76 × 1.97 × 4.81
Unit Weight	kg	0.38	0.52
	lb	0.84	1.15
Cooling System		Convection	
LED Indicators		Green LED DC OK: $V_{in}1$ and $V_{in}2$	
MTBF [1]		> 800,000 hrs	> 800,000 hrs
Environment			
Operating Temperature [2]		-40°C to +80°C	
Storage Temperature		-40°C to +85°C	
Operating Humidity		5 to 95% RH (Non-Condensing)	
Operating Altitude		0 to 2,500 m (0 to 8,200 ft)	

Dimensions Reference



Notes
1) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 24 V_{DC}, O/P: 100% load) for vertical mounting orientation.
2) Refer power de-rating in the product datasheet.
3) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

Buffer Module

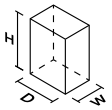
- Minimum buffering time of:
  - 250 ms @ 24 V / 20 A for DRB-24V020AB☐
  - 200 ms @ 24 V / 40 A for DRB-24V040ABN
- Flexible operating buffering voltage modes:
  Fixed mode at 22 V_{DC}; Dynamic mode for Vin-1 V
- Support parallel connection to extend buffering time
- Conformal coating on PCBAs to protect against common dust and chemical pollutants
- Hazardous Locations approval to ATEX and Class I, Div 2 (DRB-24V020ABA)

Applications

Process Automation | Machine Automation | Renewable Energy

Output		DRB-24V020AB☐	DRB-24V040ABN
Output Voltage		24 V_{DC} typ. (Depends on V_{in})	24 V_{DC} typ. (Depends on V_{in})
Output Voltage Range		22-28 V (Switch = "Fix 22 V" buffering starts if terminal voltage falls below 22 V) (Switch = "V_{in} - 1V" buffering starts if terminal voltage is decreased by more than 1 V)	
Output Current		20.0 A Max	40.0 A Max
PARD (20 MHz)		< 200 mVpp, Buffering Mode	< 350 mVpp, Buffering Mode
Buffer Time		250 ms Min @ 24 V / 20 A load, 5 s Min @ 24 V / 1 A load	200 ms Min @ 24 V / 40 A load, 8 s Min @ 24 V / 1 A load
Input			
Input Voltage Range		22.8-28.8 V_{DC}	
Input Current		Charging Mode: < 0.6 A	Charging Mode: < 0.6 A
Input Power		2.5 W average (Standby Mode)	
Charging Time		< 30 s	< 40 s
Polarity Protection		Yes	Yes
Mechanical			
Case Cover / Chassis		Aluminium	
Dimensions (H × W × D)	mm	121 × 70 × 120.1	121 × 70 × 120.1
	inch	4.76 × 2.76 × 4.73	4.76 × 2.76 × 4.73
Unit Weight	kg	0.76	0.90
	lb	1.68	1.98
Cooling System		Convection	
LED Indicators		Green LED	
MTBF [1]		> 800,000 hrs	> 800,000 hrs
Environment			
Operating Temperature [2]		-25°C to +75°C	
Storage Temperature		-25°C to +85°C	
Operating Humidity		5 to 95% RH (Non-Condensing)	
Operating Altitude		0 to 2,500 m (0 to 8,200 ft)	

Dimensions Reference



Notes
1) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 24 V_{DC}, O/P: 100% load) for vertical mounting orientation.
2) Refer power de-rating in the product datasheet.
3) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

DC-UPS Module

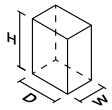
- Full corrosion resistant aluminium casing
- Suitable for 24 V system up to 40 A
- Built-in diagnostic monitoring for DC OK, Discharge and Battery Fail by relay contacts
- LED indicator for DC OK, Battery Charging, Battery Discharging, Battery Fail and Battery Reverse Polarity
- High MTBF > 500,000 hrs per Telcordia SR-332
- Conformal coating option on PCBAs to protect against common dust and chemical pollutants

Applications

Building Automation | Process Automation | Machine Automation | Renewable Energy

Output		DRU-24V40ABN
Output Voltage Range		23-28 V_{DC}
Output Current		40.0 A Max
Output Power		960 W Max
Input		
Input Voltage Range		24-28 V_{DC}
Input Current		Charging Mode: 2.0 A ± 1.0 A
Charging Time		< 3 hr ± 1 hr (for battery 24 V / 15 AH)
Efficiency		Charging Mode: > 70.0% Buffering Mode: > 99.0%
Mechanical		
Case Cover / Chassis		Aluminium
Dimensions (H × W × D)	mm	121 × 50 × 117.3
	inch	4.76 × 1.97 × 4.62
Unit Weight	kg	0.60
	lb	1.32
Cooling System		Convection
LED Indicators		Green LED Orange LED Red LED
MTBF [1]		> 500,000 hrs
Environment		
Operating Temperature [2]		-20°C to +60°C
Storage Temperature		-40°C to +85°C
Operating Humidity		5 to 95% RH (Non-Condensing)
Operating Altitude		0 to 3,000 m (0 to 9,840 ft)

Dimensions Reference



Notes
1) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 24 V_{DC}, O/P: 100% load) for vertical mounting orientation.
2) Refer power de-rating in the product datasheet.
3) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

CHROME DC-UPS Module

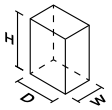
- Suitable for 24 V system up to 10 A
- Zero switch over time from loss of DC input to battery operation
- Built-in diagnostic monitoring for DC OK, Discharge and Battery Fail by relay contacts
- Full power for the entire temperature range from -20°C to +60°C
- LED indicator for DC OK, Battery Charging, Battery Discharging, Battery Fail and Battery Reverse Polarity
- High MTBF > 500,000 hrs as per Telcordia SR-332

Applications

Building Automation | Process Automation | Machine Automation | Renewable Energy

Output		DRU-24V10ACZ
Output Voltage Range		23-28 V_{DC}
Output Current		10.0 A Max
Output Power		240 W Max
Input		
Input Voltage Range		24-28 V_{DC}
Input Current		Charging Mode: 0.5 A ± 0.1 A
Charging Time		< 30 hr ± 5 hr (for battery 24 V / 12 AH)
Efficiency		Charging Mode: > 80.0% Buffering Mode: > 99.0%
Mechanical		
Case Cover / Chassis		Plastic
Dimensions (H × W × D)	mm	91 × 71 × 55.6
	inch	3.58 × 2.80 × 2.19
Unit Weight	kg	0.14
	lb	0.31
Cooling System		Convection
LED Indicators		Green LED Orange LED Red LED
MTBF [1]		> 500,000 hrs
Environment		
Operating Temperature [2]		-20°C to +60°C
Storage Temperature		-40°C to +85°C
Operating Humidity		5 to 95% RH (Non-Condensing)
Operating Altitude		0 to 3,000 m (0 to 9,840 ft)

Dimensions Reference



Notes
1) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 24 V_{DC}, O/P: 100% load) for vertical mounting orientation.
2) Refer power de-rating in the product datasheet.
3) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

CliQ M DC-UPS Module

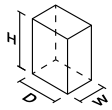
- Full corrosion resistant aluminium casing
- Selectable Charging Current
- Selectable Buffering Time to prevent battery over discharge
- Battery temperature protection to extend battery life
- Conformal coating on PCBAs to protect against common dust and chemical pollutants

Applications

Building Automation | Process Automation | Machine Automation | Renewable Energy

		NEW	NEW	NEW
Output		**DRU-24V10AMN**	**DRU-24V20AMN**	**DRU-24V40AMN**
Output Voltage Range		17.5-29.5 V_{DC}	17.5-29.5 V_{DC}	17.5-29.5 V_{DC}
Output Current		10.0 A Max	20.0 A Max	40.0 A Max
Output Power		240 W Max	480 W Max	960 W Max
Input				
Input Voltage Range		18-30 V_{DC}		
Input Current		0.5 A, 1 A, 1.5 A, 2 A (typ.) (constant current)	0.75 A, 1.5 A, 2.25 A, 3 A (typ.) (constant current)	1 A, 2 A, 3 A, 4 A (typ.) (constant current)
Charging Time		< 9 hr ± 1 hr (2 A charging current for 24 V / 12 AH battery)	< 6 hr ± 1 hr (3 A charging current for 24 V / 12 AH battery)	< 4.5 hr ± 1 hr (4 A charging current for 24 V / 12 AH battery)
Efficiency		Normal Operation: 98% typ.		
Mechanical				
Case Cover / Chassis		Aluminium		
Dimensions (H × W × D)	mm	124 × 38 × 117	124 × 38 × 117	124 × 50 × 117
	inch	4.88 × 1.50 × 4.61	4.88 × 1.50 × 4.61	4.88 × 1.97 × 4.61
Unit Weight	kg	0.52	0.53	0.66
	lb	1.15	1.17	1.46
Cooling System		Convection		
LED Indicators [1]		Green LED Red LED Orange LED		
MTBF [2]		> 500,000 hrs		
Environment				
Operating Temperature [1]		-30°C to +70°C		
Storage Temperature		-40°C to +85°C		
Operating Humidity		5 to 95% RH (Non-Condensing)		
Operating Altitude [3]		0 to 6,000 m (0 to 19,680 ft)		

Dimensions Reference



Notes
1) Refer LED indicator status and power de-rating in the product datasheet.
2) MTBF as per Telcordia SR-332.
3) Approvals apply only up to 5,000 m (16,400 ft).
4) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

CliQ M Battery Module

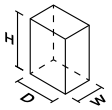
- Anti-corrosion powder coated chassis
- Suitable for 7.2 AH Lead-Acid battery
- Built-in battery voltage LED indicator
- Built-in battery over temperature protection
  (need to be used with the CliQ M DC-UPS modules)

Applications

Building Automation | Process Automation | Machine Automation | Renewable Energy

		NEW
Battery		**DRN-24V7AAEN**
Nominal Battery Voltage		24 V_{DC}, SLA Sealed lead acid battery 2 x 12 V_{DC}, SLA Sealed lead acid battery
Battery Capability		7.2 AH lead-acid battery
Recommended Charging Voltage		27.6 V_{DC}
Battery Current		
Charging Current [1]		2.1 A Max
Discharging Current		40 A Max
Battery Fuse		2 pcs in parallel
Mechanical		
Case Chassis		Metal
Dimensions (H × W × D)	mm	211.5 × 148 × 109.2
	inch	8.33 × 5.83 × 4.30
Unit Weight	kg	1.40
	lb	3.09
Cooling System		Convection
LED Indicators		Green LED
Environment		
Operating Temperature	Charging	0°C to +40°C
	Discharging	-10°C to +50°C
Storage Temperature		-15°C to +40°C
Operating Humidity		5 to 95% RH (Non-Condensing)
Operating Altitude		0 to 6,000 m (0 to 19,680 ft)

Dimensions Reference



Notes
1) Cannot exceed max charging current limitation of battery specification.
2) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

Adapter

ADT

Meet efficiency DoE Level VI & CoC Tier 2

Power Range: 60-150 W

Applications

Test &
Measurement

ADT (12 V, 15 V)

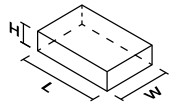
- Meet efficiency DoE Level VI
- Meet CoC Tier 2 (150 W model)
- No load power consumption < 0.15 W
- Fully enclosed plastic case
- Protection: short circuit / over voltage / overload / over temperature

Applications

Test & Measurement

Output		ADT-060A12A□	ADT-150B12AA	ADT-060A15A□
Output Voltage		12 V	12 V	15 V
Output Current (Max)		5.0 A	12.5 A	4.0 A
Output Power		60 W	150 W	60 W
PARD (20 MHz)		< 240 mVpp @ 0°C to +40°C, < 480 mVpp @ -10°C to 0°C	< 240 mVpp @ 0°C to +40°C, < 480 mVpp @ -10°C to 0°C	< 300 mVpp @ 0°C to +40°C, < 600 mVpp @ -10°C to 0°C
Hold-up Time	115 V_{AC}	12 ms typ.	40 ms typ.	12 ms typ.
	230 V_{AC}	60 ms typ.	-	60 ms typ.
Input				
Input Voltage Range		85-264 V_{AC}	90-264 V_{AC}	85-264 V_{AC}
Input Frequency		47-63 Hz		
Input Current	115 V_{AC}	< 1.4 A	< 2.0 A	< 1.4 A
	230 V_{AC}	< 1.0 A	< 1.0 A	< 1.0 A
Efficiency at 100% Load	115 V_{AC}	87.6% typ.	89.0% typ.	87.9% typ.
	230 V_{AC}	90.2% typ.	90.0% typ.	
Max Inrush Current (Cold Start)		No damage		
Power Factor	230 V_{AC}	-	> 0.90	-
Leakage Current	240 V_{AC}	< 0.1 mA		
Mechanical				
Dimensions (L × W × H)	mm	108 × 46 × 29.5	155 × 76 × 30	108 × 46 × 29.5
	inch	4.25 × 1.81 × 1.16	6.10 × 3.00 × 1.20	4.25 × 1.81 × 1.16
Unit Weight	kg	0.18	0.54	0.18
	lb	0.40	1.19	0.40
Connector Type		ADT-060A□AA: Input: C6; Output: Tuning fork ADT-060A□AB: Input: C8; Output: Tuning fork ADT-150B12AA: Input: C6; Output: Barrel type		
Cooling System		Convection		
MTBF [1]		> 700,000 hrs	> 300,000 hrs	> 700,000 hrs
Environment				
Operating Temperature [2]		-10°C to +60°C		
Storage Temperature		-40°C to +85°C		
Operating Humidity		5 to 95% RH (Non-Condensing)		
Operating Altitude		0 to 5,000 m (0 to 16,400 ft)		
Protection Against Shock		Class II	Class I	Class II

Dimensions Reference



Notes
1) ADT-060A12A and ADT-060A15A, MTBF as per Telcordia SR-332 (I/P: 115 V_{AC}, O/P: 100% load).
ADT-150B12AA, MTBF as per Telcordia SR-332 (I/P: 100 V_{AC}, O/P: 100% load).
2) Refer power de-rating in the product datasheet.
3) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

ADT (19 V, 24 V)

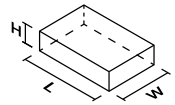
- Meet efficiency DoE Level VI
- Meet CoC Tier 2 (150 W models)
- No load power consumption < 0.15 W
- Fully enclosed plastic case
- Protection: short circuit / over voltage / overload / over temperature

Applications

Test & Measurement

Output		ADT-060A19A□	ADT-120A19AA	ADT-150A19AA
Output Voltage		19 V	19.5 V	19.5 V
Output Current (Max)		3.2 A	6.15 A	7.7 A
Output Power		60.8 W	120 W	150 W
PARD (20 MHz)		< 380 mVpp @ 0°C to +40°C, < 760 mVpp @ -10°C to 0°C		
Hold-up Time	115 V_{AC}	12 ms typ.	> 20 ms	> 16 ms
	230 V_{AC}	60 ms typ.		
Input				
Input Voltage Range		85-264 V_{AC}	90-264 V_{AC}	
Input Frequency		47-63 Hz		
Input Current	115 V_{AC}	< 1.4 A	< 1.4 A	< 1.8 A
	230 V_{AC}	< 1.0 A	< 0.7 A	< 0.9 A
Efficiency at 100% Load	115 V_{AC}	88.1% typ.	90.0% typ.	
	230 V_{AC}	90.3% typ.	91.5% typ.	
Max Inrush Current (Cold Start)		No damage		
Power Factor	230 V_{AC}	-	> 0.9	
Leakage Current	240 V_{AC}	< 0.1 mA		< 0.25 mA
Mechanical				
Dimensions (L × W × H)	mm	108 × 46 × 29.5	138 × 68.5 × 24.5	160 × 76.2 × 25.8
	inch	4.25 × 1.81 × 1.16	5.43 × 2.70 × 0.96	6.30 × 3.00 × 1.02
Unit Weight	kg	0.18	0.34	0.41
	lb	0.40	0.75	0.90
Connector Type		ADT-060A19AA, ADT-120A19AA: Input: C6; Output: Tuning fork ADT-060A19AB: Input: C8; Output: Tuning fork ADT-150A19AA: Input: C6; Output: Barrel type		
Cooling System		Convection		
MTBF [1]		> 700,000 hrs	> 300,000 hrs	
Environment				
Operating Temperature [2]		-10°C to +60°C		
Storage Temperature		-40°C to +85°C		
Operating Humidity		5 to 95% RH (Non-Condensing)		
Operating Altitude		0 to 5,000 m (0 to 16,400 ft)		
Protection Against Shock		Class II	Class I	

Dimensions Reference



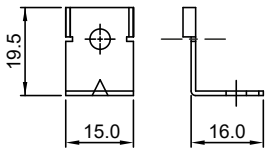
Notes
1) MTBF as per Telcordia SR-332 (I/P: 115 Vac, O/P: 100% load).
2) Refer power de-rating in the product datasheet.
3) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

ADT-060A24A□	ADT-090A24AA	ADT-120A24AA	ADT-150A24AA	ADT-150C24AC
24 V	24 V	24 V	24 V	24 V
2.5 A	3.75 A	5.0 A	6.25 A	6.25 A
60 W	90 W	120 W	150 W	150 W
< 480 mVpp @ 0°C to +40°C, < 960 mVpp @ -10°C to 0°C	< 240 mVpp @ 0°C to +40°C, < 480 mVpp @ -10°C to 0°C			
12 ms typ.	40 ms typ.		30 ms typ.	16 ms typ.
60 ms typ.	-			
85-264 V_{AC}	90-264 V_{AC}			
47-63 Hz				
< 1.4 A	< 1.3 A	< 1.85 A	< 1.85 A	< 1.85 A
< 1.0 A	< 0.6 A	< 1.0 A	< 1.0 A	< 1.0 A
88.8% typ.	90.0% typ.	91.0% typ.		90.0% typ.
90.1% typ.	91.5% typ.	92.0% typ.		91.0% typ.
No damage				
-	> 0.9			
< 0.1 mA	< 250 µA			
108 × 46 × 29.5	126 × 51 × 30	138 × 68.5 × 24.5	160 × 76.2 × 25.8	165.1 × 76.1 × 31.5
4.25 × 1.81 × 1.16	4.96 × 2.00 × 1.18	5.43 × 2.70 × 0.96	6.30 × 3.00 × 1.02	6.50 × 3.00 × 1.24
0.18	0.18	0.34	0.41	0.47
0.40	0.40	0.75	0.90	1.04
ADT-060A24AA, ADT-120A24AA: Input: C6; Output: Tuning fork ADT-090A24AA: Input: C6; Output: Barrel type ADT-060A24AB: Input: C8; Output: Tuning fork ADT-150A24AA: Input: C6, Output: Tuning fork ADT-150C24AC: Input: C14, Output: 4-pin DIN				
Convection				
> 700,000 hrs	> 300,000 hrs			
-10°C to +60°C				
-40°C to +85°C				
5 to 95% RH (Non-Condensing)				
0 to 5,000 m (0 to 16,400 ft)				
Class II	Class I			

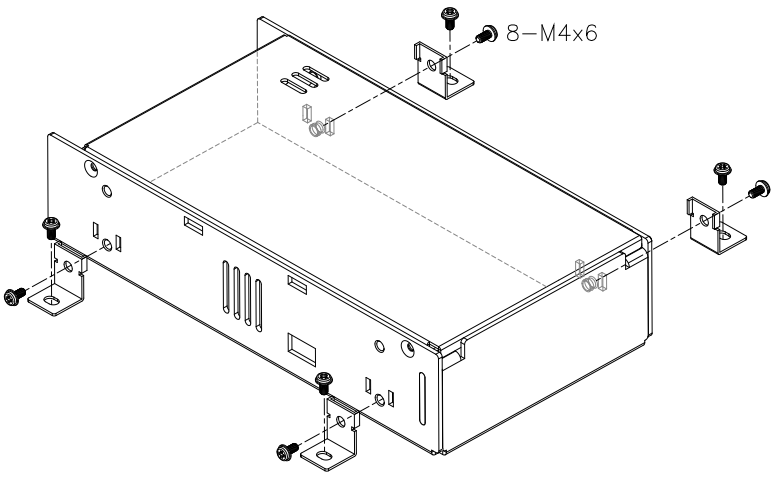
Accessories

Panel Mount Accessories

- **LM-01**



Accessories Assembly



Model Information

Item	Model Number	Compatible Models
	LM-01	PMT-12V350W2B□□ PMT-24V350W2B□□ PMT-36V350W2B□ PMT-48V350W2B□ PMF-4V320WC□□ PMF-5V320WC□□ PMF-24V240WC□□, PMF-24V320WC□□ PMR-4V320WC□A, PMR-4V320WD□A PMR-5V320WC□A, PMR-5V320WD□A

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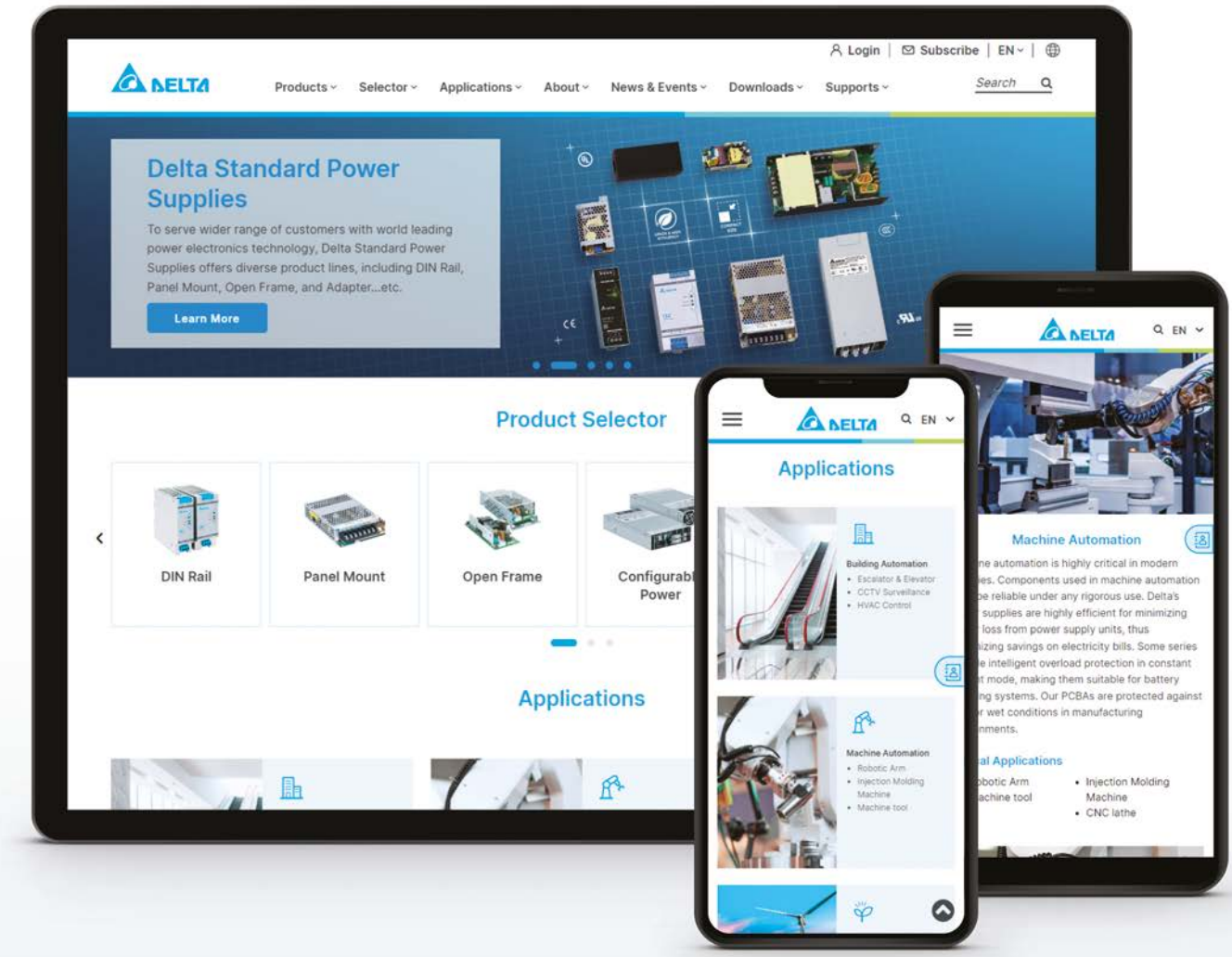

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FAQs

What is Power Boost?

It is the reserve power available constantly that allows reliable startup of loads with high outrush current.

Why is Power Boost beneficial?

Such feature is especially useful for applications where loads are active; the high surge current can cause the power supply unit (PSU) output to dip down if the PSU does not have the capability to withstand this surge current. Consequently, this could reset the system and result in system downtime.

What is Advanced Power Boost (APB)?

Within a multiple loads connection, Advanced Power Boost (APB) can detect a faulty current path and provide a large outrush current to trip the circuit breaker connected to the faulty path. This prevents the system from shutting down while the other connected current paths continue to operate without interruption.

What should I consider when selecting a power supply unit (PSU)?

- Input Type (Single Phase or 3 Phase)
- Output Power
- Efficiency and Reliability

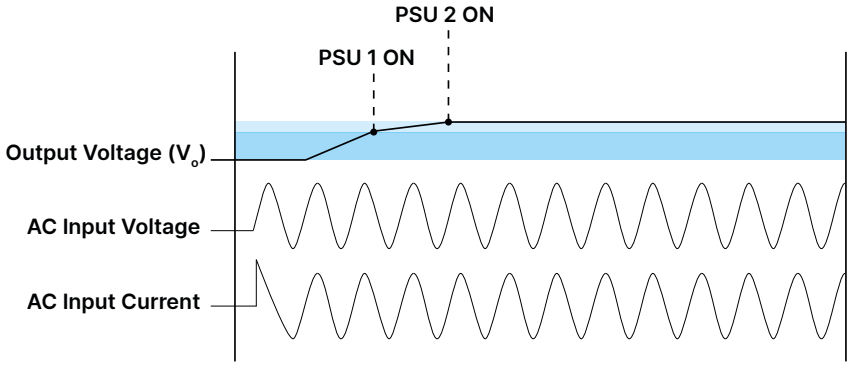
Efficiency and Reliability are the two most important factors to consider in selecting a PSU.

The best way to ensure the reliability of the PSU is to choose one that provides a maximum of 30% more output than your actual total requirement. For example, if your system has a 90 W power requirement, you should choose a PSU with at least 120 W power output rating. By doing so, you are boosting the reliability of the PSU as well as prolonging the entire system life.

An efficient PSU will thus ensure that power loss is minimized and will greatly help to lower your operating costs in the long run. By choosing a cheaper, but less efficient PSU will just mean that you are paying for it through your monthly electric bills. Delta's Force-GT DIN rail power supply easily give our users a substantial efficiency of up to 95%. Other factors to consider include the operating conditions, types of safety certifications, PSU protection and application functions. Please contact your nearest Delta sales representative for a recommendation based on your requirements.

What critical parameters do I have to watch out for when connecting the power supplies in series?

The turn ON would be non-monotonic as the power supply with the fastest startup time and rise time will turn on first. As a result, the startup waveform with 2 power supplies connected in series would see a step.



Notes

Warranty

Delta warrants that the products ("Products") sold in this catalog will be free of defects in material and workmanship within the warranty period. The warranty does not apply to Products which have been subjected to abuse, misuse, accident, neglect, unauthorized and/or improper installation, operation, use, maintenance, repair or alteration, or accident of unusual deterioration or degradation of the Products or parts thereof due to physical environment beyond the requirements of the Product specifications.

Attention

Delta provides all information in the catalog and datasheets on an "AS IS" basis and does not offer any kind of warranty through the information for using the product. In the event of any discrepancy between the information in the catalog and datasheets, the datasheets shall prevail (please refer to **www.DeltaPSU.com** for the latest datasheets information). Delta shall have no liability of indemnification for any claim or action arising from any error for the provided information in the catalog and datasheets. Customer shall take its responsibility for evaluation of using the product before placing an order with Delta.

Delta reserves the right to make changes to the information described in the catalog and datasheets without notice.

EMC Directives

At Delta, all of our products are designed to meet the highest quality standards. All national and international safety certifications including EMC directives are conducted by qualified and independent laboratories. For EMC directives' compliance, the power supplies are tested to ensure compliance as a stand-alone product. Power supplies like the panel mount and open frame types are typically considered component power supply. Therefore, Delta cannot guarantee the system which is installed with Delta's component power supply can meet the related EMC directives. Customers are advised to contact the system manufacturer for confirmation.

Availability

Products with "New" tab are slated for official release with immediate effect, while products with "Coming Soon" tab will be available within the next two months from this catalog's publication month (refer to back cover page). Kindly contact your local Delta distributor for availability, ordering and delivery details. You may also get in touch with us via the Feedback Form on **www.DeltaPSU.com/feedback**.

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