

PMC Panel Mount Power Supply

24V Output



Input Voltage: 85 - 264Vac
(DC input range 100 - 375Vdc)
Input frequency: 47 - 63Hz
Output Voltage: 22 - 28Vdc

Features:

- Full aluminium casing for light weight and corrosion resistant handling
- Universal AC input
- Overvoltage protection
- Overload protection
- Thermal protection
- MTBF: > 700,000 hrs.
- Expected life time: 10 years
- 2 years warranty
- RoHS compliant

Safety Standards:

UR/cUR recognized to UL60950-1 and CSA C22.2 No.60950-1; CB test certificate and report to IEC60950-1; CE (EMC and low voltage directive), NEMKO

Product Specification

Model number	PMC-24V035W1AA	PMC-24V050W1AA	PMC-24V100W1AA
Reference no.	EOE11010118	EOE11010119	EOE11010120
OUTPUT (DC)			
Output power	35W	50W	100W
Output current	1.46A (35W max.)	2.1A (50W max.)	4.17A (100W max.)
PARD (20MHz)	< 150mVpp (@ nominal values)	< 150mVpp (@ nominal values)	< 150mVpp (@ nominal values)
Start-up time	< 2500ms @ 100% load (25°C) and typical line input	< 2500ms @ 100% load (25°C) and typical line input	< 1000ms @ 100% load (25°C) and typical line input
Hold-up time	> 15ms @ 115Vac, > 80ms @ 230Vac with 35W load (25°C)	> 15ms @ 115Vac, > 90ms @ 230Vac with 50W load (25°C)	> 15ms @ 115Vac, > 90ms @ 230Vac with 100W load (25°C)
Rise time	< 30ms @ 100% load (25°C)	< 30ms @ 100% load (25°C)	< 30ms @ 100% load (25°C)
Line regulation	< 0.5% typical (@ 85 - 264Vac input, 100% load)	< 0.5% typical (@ 85 - 264Vac input, 100% load)	< 0.5% typical (@ 85 - 264Vac input, 100% load)
Load regulation	< 1% typical (@ 85 - 264Vac input, 0 to 100% load)	< 1% typical (@ 85 - 264Vac input, 0 to 100% load)	< 1% typical (@ 85 - 264Vac input, 0 to 100% load)
INPUT (AC)			
Max. input current	1.0A max. (0.72A max. @ 115Vac, 0.4A max. @ 230Vac)	1.5A max. (1.1A max. @ 115Vac, 0.7A max. @ 230Vac)	3.0A max. (2.0A max. @ 115Vac, 1.1A max. @ 230Vac)
Inrush current limitation I _{PI} (+25°C)	< 30A @ 115Vac, 60A @ 230Vac	< 30A @ 115Vac, 60A @ 230Vac	< 50A @ 115Vac, 100A @ 230Vac (no damage, all input devices must be within their I _{PI} ratings)
Efficiency	> 85% (typical)	> 86% (typical)	> 86% (typical)
Leakage current	< 1mA @ 240Vac	< 1mA @ 240Vac	< 1mA @ 240Vac
MECHANICAL DESIGN			
Case cover	Aluminium (AL1100)	Aluminium (AL1100)	Aluminium (AL1100)
Dimensions (L x W x H)	128mm x 97mm x 38mm	128mm x 97mm x 38mm	158mm x 97mm x 38mm
Unit weight / box	0.237kg	0.255kg	0.410kg
MTBF	> 700,000 hrs.	> 700,000 hrs.	> 700,000 hrs.
Noise	Sound pressure level (SPL) < 40 dBA	Sound pressure level (SPL) < 40 dBA	Sound pressure level (SPL) < 40 dBA
Cooling	Convection	Convection	Convection
Input / output terminal	Terminal block 5 pin rated 300V/20A	Terminal block 5 pin rated 300V/20A	Terminal block 7 pin rated 300V/20A
Input / output wire	AWG22-12	AWG22-12	AWG22-12
Shock test	IEC 60068-2-27	IEC 60068-2-27	IEC 60068-2-27
Vibration	IEC 68000-2-6	IEC 68000-2-6	IEC 68000-2-6
SAFETY / ENVIRONMENTAL			
EMC / Emissions	FCC Title 47, Class B/EN55022:CISPR22, Class B	FCC Title 47, Class B/EN55022:CISPR22, Class B	FCC Title 47, Class B/EN55022:CISPR22, Class B
Immunity	EN 61000-4-2, 1995; EN61000-4-3, 1998; IEC61000-4-12 or IEEE C62.41; EN61000-3-2, 1994	EN61000-4-4, 1995; IEC61000-4-5, 1995; EN61000-3-2, 1994	EN61000-4-6, 1996; EN61000-4-8 or
Safety Marks	 E191395		
Voltage dips	Conform to EN61000-4-11	Conform to EN61000-4-11	Conform to EN61000-4-11
Galvanic isolation	Input to output: 3KVac; Input to ground: 1.5KVac; Output to ground: 0.5KVac	Input to output: 3KVac; Input to ground: 1.5KVac; Output to ground: 0.5KVac	Input to output: 3KVac; Input to ground: 1.5KVac; Output to ground: 0.5KVac
Operating temperature	-10°C to +70°C *	-10°C to +70°C *	-10°C to +70°C *
Storage temperature	-25°C to +85°C	-25°C to +85°C	-25°C to +85°C
Operating humidity	< 95% RH non-condensing	< 95% RH non-condensing	< 95% RH non-condensing
Note (*)	* Operation to 70°C possible with a linear derating to half power from 50°C to 70°C	* Operation to 70°C possible with a linear derating to half power from 50°C to 70°C	* Operation to 70°C possible with a linear derating to half power from 50°C to 70°C

PMC Panel Mount Power Supply

12V Output



Input Voltage: 85 - 264Vac
(DC input range 100 - 375Vdc)
Input frequency: 47 - 63Hz
Output Voltage: 11 - 14Vdc

Features:

- Full aluminium casing for light weight and corrosion resistant handling
- Universal AC input
- Overvoltage protection
- Overload protection
- Thermal protection
- MTBF: > 700,000 hrs.
- Expected life time: 10 years
- 2 years warranty
- RoHS compliant

Safety Standards:

UR/cUR recognized to UL60950-1 and CSA C22.2 No.60950-1; CB test certificate and report to IEC60950-1; CE (EMC and low voltage directive), TUV

Product Specification

Model number	PMC-12V035W1AA	PMC-12V050W1AA	PMC-12V100W1AA
Reference no.	EOE11010185	EOE11010186	EOE11010187
OUTPUT (DC)			
Output power	36W	50W	100W
Output current	3A (36W max.)	4.17A (50W max.)	8.33A (100W max.)
PARD (20MHz)	< 100mVpp	< 100mV	< 100mV
Start-up time	< 2500ms	< 2500ms	< 1000ms
Hold-up time	> 15ms @ 115Vac and >80ms @ 230Vac	> 15ms @ 115Vac and >80ms @ 230Vac	> 15ms @ 115Vac and >80ms @ 230Vac
Rise time	< 30ms @ 100% load (25°C)	< 30ms @ 100% load (25°C)	< 30ms @ 100% load (25°C)
Line regulation	< 0.5% typical (@ 85 - 264Vac input, 100% load)	< 0.5% typical (@ 85 - 264Vac input, 100% load)	< 0.5% typical (@ 85 - 264Vac input, 100% load)
Load regulation	< 1% (@ 85 - 264Vac) Full input range	< 1% (@ 85 - 264Vac) Full input range	< 1% (@ 85 - 264Vac) Full input range
INPUT (AC)			
Max. input current	0.9A max. (0.72A max. @ 115Vac, 0.45A max. @ 230Vac)	1.5A max. (1.1A max. @ 115Vac, 0.7A max. @ 230Vac)	3.0A max. (2.0A max. @ 115Vac, 1.1A max. @ 230Vac)
Inrush current limitation Pt (+25°C)	< 30A @ 115Vac, 60A @ 230Vac	< 30A @ 115Vac, 60A @ 230Vac	< 60A @ 115Vac, 130A @ 230Vac
Efficiency	> 84% @ 115Vac & 230Vac and 25°C	> 83% @ 115Vac & > 84% @ 230Vac and 25°C	> 84% @ 115Vac & > 86% @ 230Vac and 25°C
Leakage current	< 1mA @ 240Vac	< 1mA @ 240Vac	< 1mA @ 240Vac
MECHANICAL DESIGN			
Case cover	Aluminium (AL1100)	Aluminium (AL1100)	Aluminium (AL1100)
Dimensions (L x W x H)	98mm x 97mm x 38mm	128mm x 97mm x 38mm	158mm x 97mm x 38mm
Unit weight / box	0.210kg	0.260kg	0.450kg
MTBF	> 700,000 hrs.	> 700,000 hrs.	> 700,000 hrs.
Noise	Sound pressure level (SPL) < 40dBA	Sound pressure level (SPL) < 40dBA	Sound pressure level (SPL) < 40dBA
Cooling	Convection	Convection	Convection
Input / Output terminal	Terminal block 5 PIN rated 300V/20A	Terminal block 5 PIN rated 300V/20A	Terminal block 7 PIN rated 300V/20A
Input / Output wire	AWG22-14	AWG22-14	AWG22-14
Shock test	IEC60068-2-27	IEC60068-2-27	IEC60068-2-27
Vibration	IEC60068-2-6	IEC60068-2-6	IEC60068-2-6
SAFETY / ENVIRONMENTAL			
EMC / Emissions	FCC Title 47, Class B/EN55022; CISPR22, Class B	FCC Title 47, Class B/EN55022; CISPR22, Class B	FCC Title 47, Class B/EN55022; CISPR22, Class B
Immunity	EN 61000-4-2, 3, 4, 1995; IEC61000-4-5, 1995; EN61000-4-6, 8 or IEC61000-4-12 or IEEE C62.41; EN61000-3-2, 1994		
Safety Marks			
Voltage dips	Conforms to EN61000-4-11	Conforms to EN61000-4-11	Conforms to EN61000-4-11
Galvanic isolation	Input to output: 3KVdc; Input to ground: 1.5KVdc; Output to ground: 0.5KVdc	Input to output: 3KVdc; Input to ground: 1.5KVdc; Output to ground: 0.5KVdc	Input to output: 3KVdc; Input to ground: 1.5KVdc; Output to ground: 0.5KVdc
Operating temperature	-10°C to +70°C *	-10°C to +70°C *	-10°C to +70°C *
Storage temperature	-25°C to +85°C	-25°C to +85°C	-25°C to +85°C
Operating humidity	< 95% RH non-condensing	< 95% RH non-condensing	< 95% RH non-condensing
Note (*)	* Operation to 70°C possible with a linear derating to half power from 50°C to 70°C	* Operation to 70°C possible with a linear derating to half power from 50°C to 70°C	* Operation to 70°C possible with a linear derating to half power from 50°C to 70°C

www.deltaenergysystems.com

vl@delta.co.th

ASIA

Delta Greentech (China) Co., Ltd
No. 238 Minxia Road, Pudong District
Shanghai, P.R.C 201209
Tel: +86 21 58635678
Fax: +86 21 58630003

Delta Electronics, Inc.
Taoyuan 1
31-1, Xingbang Road
Guishan Industrial Zone,
Taoyuan Country 33370,
Taiwan R.O.C
Tel: +886 3 362 6301
Fax: +886 3 362 7267

Delta Power Solutions (India) Pvt. Ltd
Plot No-28, Sector-34, EHTP, Gurgaon
Tel: +91 124 4169040 Ext 605
Fax: +91 124 4036045

**Delta Electronics (Thailand)
Public Company Limited**
909 Moo 4, E.P.Z.,
Bangpoo Industrial Estate,
Tambon Prakasa,
Amphur Muang Samutprakarn,
Samutprakarn 10280, Thailand
Tel: +662 709 2800
Fax: +662 709 2827

EUROPE

Delta Electronics Europe
Zandsteen 15
2132 MZ Hoofddorp - The Netherlands
Tel: +31 20 655 0900
Fax: +31 20 655 0999

Deltronics (The Netherlands) B.V.
Eindhoven Office
De Witbogt 15, 5652 AG Eindhoven,
The Netherlands
Tel: +31 40 259 2580
Fax: +31 40 259 2851

Delta Energy Systems (Germany) GmbH
Tscheulinstrasse 21
79331 Teningen - Germany
Tel: +49 7641 455 418
Fax: +49 7641 455 318

NORTH AND SOUTH AMERICA

Delta Product Corporation (USA)
P.O. Box 12173, 5101 Davis Drive,
Research Triangle Park, NC 27709, U.S.A.
Tel: +1 919 767 3813
Fax: +1 919 767 3969

Delta Energy Systems (Brasil) S/A
Rua Jardim Ivone, 17 Cjs 13/14 - Paraíso
04105-020 - São Paulo - SP - Brasil
Tel: +55 11 3568-3860, 3875
Fax: +55 11 3568-3865