

DRP 012V Series

15W - 100W AC / DC DIN RAIL

FEATURES

- 12VDC 15W - 100W
- 1Ph AC/DC Power Supply DIN Rail Mountable
- Power will not de-rate for the entire input voltage range
- Power Boost of 150% for 3 seconds
- Conformal coating on PCBAs
- Protected against common dust and chemical pollutants
- Hazardous Locations approval to ATEX Class I Div 2*
*100W and 160W version only
- Overvoltage / Overcurrent / Over Temperature
- Short Circuit Protection



SPECIFICATIONS

OUTPUT	DRP012V015W1AZ	DRP012V030W1AZ	DRP012V060W1AA	DRP012V100W1AA
Output Voltage	12Vdc	12Vdc	12Vdc	12Vdc
Output Voltage Range	11V - 14Vdc	11V- 14Vdc	11V - 14Vdc	11V - 14Vdc
Output Current	1.25A	2.5A	5A	8.33A
Output Power	15W	30W	60 W	100W
MTBF	>500,000hrs			
Hold-up Time	>110ms@230Vac			
Line Regulation	<0.5% typ. at 100% load			
Load Regulation	<1%typ. at 0-100% load			
PARD (20MHz)	<100mVpp			
Indicator	Green LED (DC OK)			
INPUT				
Input Voltage	85-264Vac, 120-375Vdc			
Input Frequency	47-63Hz			
Input Current	<0.22A @ 230Vac	< 0.42A @ 230Vac	< 0.8A @ 230Vac	<1.5A @ 230Vac
Max Inrush	<65A at 230Vac	<80A at 230Vac	<100A at 230Vac	No damage at 230Vac
Efficiency at 100% Load	> 83% at 230Vac	> 85% at 230Vac	> 86% at 230Vac	> 87.5% at 230Vac
Leakage Current	< 1mA @ 240Vac			
Power Factor	Conform to EN61000-3-2			
ENVIRONMENTAL				
Operating Temperature	-20°C to +80°C			
Cooling System	Convection			
Storage Temperature	-25°C to +85°C			
Power De-rating	> 50°C (2.5%/°C), > 70°C (4%/°C)			
Operating Humidity	< 95% RH (Non-Condensing)			
Operating Altitude	0 to 2,000m			
PROTECTION				
Overvoltage	16V, +10% / -5% SELV Ouput, Hiccup Mode, Non-Latching (Auto-Recovery)			
Overload/Overcurrent	> 150% of rated load current, Hiccup Mode, Non-Latching (Auto-Recovery)			
Over Temperature	> 80C Surrounding Air Temperature @ 100% load, Latch-off Mode			
Short Circuit	Hiccup Mode, Non-Latching (Auto-Recovery) when the fault is removed)			
Protection against Shock	Class 1 with PE connection			
Galvanic Isolation	Input to Output: 4.0KVAC Input to Ground: 1.5KVAC Output to Ground: 1.5KVAC			

DRP 012V Series

15W - 100W AC / DC DIN RAIL

STANDARD	DRP012V015W1AZ	DRP012V030W1AZ	DRP012V060W1AA	DRP012V100W1AA
Electronic Equipment	EN50718 / IEC62103 In power installations			
Electrical Safety	TUV Bauart to EN60950-1 UL/cUL recognized to UL60950-1, CSA C22.2 No. 60950-1, CB scheme to IEC60950-1			
Industrial Control	UL/cUL listed to UL508 and CSA C22.2 No. 107.1-01, CSA to CSA C22.2 No. 107.1-01 (File No. 181564)			
CE	In conformance with EMC Directive 2004/108/EC and Low Voltage Directive 2006/95/EC			
Materials & Parts	RoHS Directive 2011/65/EU Compliant			
Hazardous Location / ATEX	For DRP60 & DRP100 models, CSAus to CSA C22.2 No.213-M1987, ANSI / ISA 12.12.01:2007 Class 1, Division 2, Group A,B,C,D,T4, EN60079-0:2009, EN60079-15:2010, Certificate No. EPS 12 ATEX 1 491.X			
MECHANICAL				
Case Cover	Plastic	Plastic	Aluminium	Aluminium
Dimensions	100 x 32 x 100.6mm	100 x 32 x 100.6mm	121 x 32 x 120mm	121 x 50 x 118.7mm
Weight	0.18Kg	0.20kg	0.33kg	0.64kg
Input Terminal	5 pins (rated 300V/15A)	5 pins (rated 300V/15A)	3 pins (rated 300V/20A)	3 pins (rated 300V/20A)
Input Wire	AWG 22-14	AWG 22-14	AWG 22-14	AWG 18-14
Output Terminal	5 pins (rated 300V/15A)	5 pins (rated 300V/15A)	2 pins (rated 300V/20A)	2 pins (rated 300V/20A)
Output Wire	AWG 22-14	AWG 22-14	AWG 22-14	AWG 18-14
Mounting Rail	TS35 DIN Rail	TS35 DIN Rail	TS35 DIN Rail	TS35 DIN Rail

PBB1P OPTION (ONLY AVAILABLE FOR 100W VARIANT)

Input Connector	IEC AC Power Socket (with 2 meter IEC power cable supplied)
Mounting L Bracket	Optional Mounting bracket available - See technical illustrations
Drip Hood Cover	Optional Drip hood cover - Mounted on top of PBB1P power supply to protect against condensation drips

SELECTION TABLE

MODEL NUMBER	OUTPUT VOLTAGE	OUTPUT CURRENT	POWER BOOST (3 SECS)	OUTPUT POWER
DRP012V015W1AZ	12Vdc	1.25A	1.87A	15W
DRP012V030W1AZ	12Vdc	2.5A	3.75A	30W
DRP012V060W1AA	12Vdc	5A	7.5A	60W
DRP012V100W1AA	12Vdc	8.33A	12.5A	100W

MODEL NUMBER PBB1P ASSEMBLY	OUTPUT VOLTAGE	OUTPUT CURRENT	POWER BOOST (3 SECS)	OUTPUT POWER
PBB1P-100W-IEC-12V	12Vdc	8.33A	12.5A	100W

PBB1P with IEC Input assembly option



DRP 012V Series

15W - 100W AC / DC DIN RAIL

TECHNICAL ILLUSTRATION

