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
- 60W-100W Hazardous Locations approval to ATEX Class I Div 2
- Overvoltage/Overcurrent/Over Temperature Protection



SPECIFICATIONS

OUTPUT	
Output Voltage	12Vdc
Output Voltage Range	11 - 14Vdc
Output Current	See Selection Table
Output Power	15W to 100W
Line Regulation	< 0.5% typ. (@ 85-264Vac input, 100% load)
Load Regulation	< 1% typ. (@ 85-264Vac input, 0-100% load)
PARD (20MHz)	< 100mVpp
Rise Time	<20ms (100% load)
Hold-up Time	> 110ms @ 230Vac
INPUT	
Input Voltage	85-264Vac (DC input range 120-375Vdc)
Input Frequency	47-63Hz
Input Current	DRP15: <0.22A @ 230Vac DRP30: < 0.42A @ 230Vac DRP60: < 0.8A @ 230Vac DRP100: <1.5A @ 230Vac
Efficiency	> 84.0% at 100% load, vertical mounting
Leakage Current	< 1mA @ 230Vac
MECHANICAL	
Case Cover	DRP15 & DRP30: Plastic DRP60 & DRP100: Aluminium Dimensions / Weight DRP15: 100 x 32 x 100.6mm, 0.18Kg DRP30: 100 x 32 x 100.6mm, 0.20kg DRP60: 121 x 32 x 120mm, 0.33kg DRP100: 121 x 50 x 118.7mm, 0.64kg
Indicator	Green LED (DC OK)
Cooling System	Convection
Input Terminal	3 Pins (Rated 300V/20A)
Output Terminal	2 Pins (Rated 300V/20A)
Input / Output Wire	DRP15: AWG 22-14 DRP30: AWG 22-14 DRP60: AWG 22-14 DRP100: AWG 18-14
Mounting Rail	TS35 DIN Rail in accordance with EN60715

ENVIRONMENTAL	
Operating Temperature	-20°C to +80°C
Storage Temperature	-25°C to +85°C
Power De-rating	> 50°C (2.5% / °C) Vertical Mounting
Operating Humidity	5 to 95% RH (Non-Condensing)
Operating Altitude	0 to 2,000 Meters
Shock Test	IEC60068-2-27, 30G (300m/s) for a duration of 18ms, 3 times per direction
Parameters	All Parameters are specified at 25C ambient
PROTECTIONS	
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
MTBF	> 500,000 hrs as per Telcordia SR-332 I/P: 115Vac, O/P: 100% load, Ta 25C
Expected Life Time	10 years (230Vac 50% load @ 40C)
STANDARDS & APPROVALS	
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
Galvanic Isolation	Input to Output: 4.0KVAC Input to Ground: 1.5KVAC Output to Ground: 1.5KVAC

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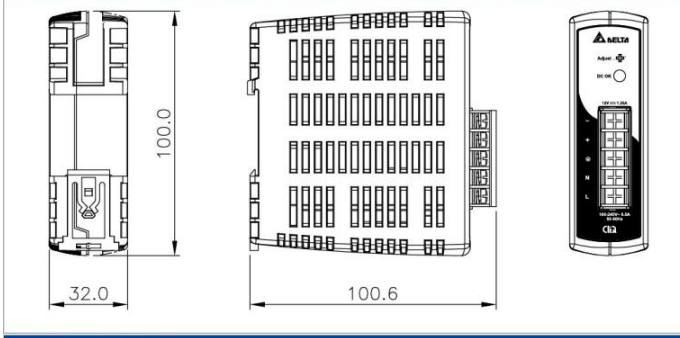
15W - 100W AC / DC DIN RAIL

SELECTION TABLE

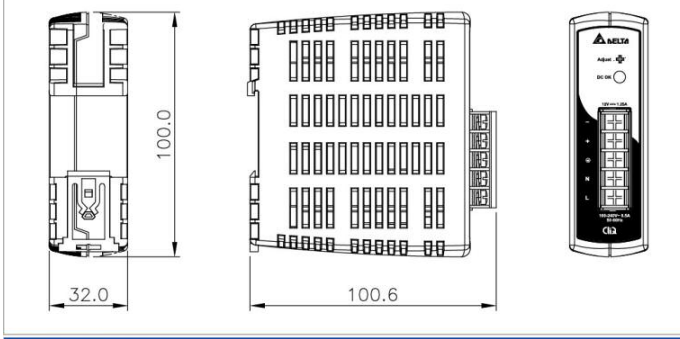
MODEL NUMBER	OUTPUT VOLTAGE	OUTPUT CURRENT	POWER BOOST (3 SECS)	OUTPUT POWER
DRP012V015W1AZ	12Vdc	1.25A	1.87A	15W
DRP012V030W1AZ	12Vdc	2.5A	3.75A	30W
DRP012V060W1AA	12Vdc	5A	7.5A	60W
DRP012V100W1AA	12Vdc	8.33A	12.5A	100W

TECHNICAL ILLUSTRATIONS

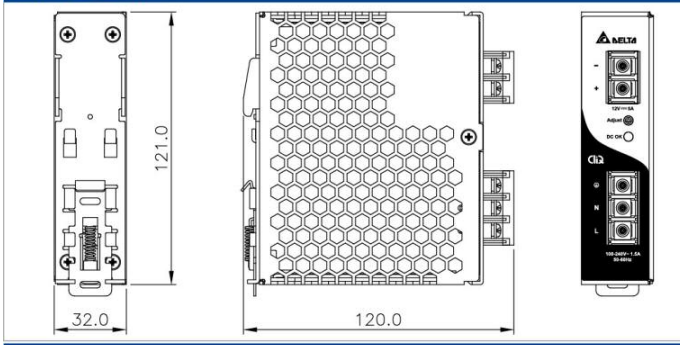
DRP012V015W



DRP012V030W



DRP012V060W



DRP012V100W

