

DRP BN1PH-24 Series

DRP BN1PH-24 - DELTA AC/DC DIN RAIL

FEATURES

- 24VDC 60W - 480W
- 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
- To protect against common dust and chemical pollutants
- Operating Temp -25C to 80C
- MTBF DRP60W & 120W > 800 000hrs
- MTBF DRP240W & 480W > 500 000hrs
- Overvoltage / Overcurrent / Over Temperature Protection
- Short Circuit Protections



SPECIFICATIONS

OUTPUT MODEL	DRP024V060W1BN	DRP024V120W1BN	DRP024V240W1BN	DRP024V480W1BN
Output Voltage	24Vdc	24Vdc	24Vdc	24Vdc
Output Voltage Range	24V - 28Vdc	24V - 28Vdc	24V - 28Vdc	24V - 28Vdc
Output Current	2.5A	5A	10A	20A
Output Power	60W	120W	240W	480W
MTBF	>800,000hrs	>800,000hrs	>500,000hrs	>500,000hrs
Hold-up Time	>125ms @ 230Vac	>115ms @ 230Vac	>20ms @ 230Vac	>20ms @ 230Vac
Line Regulation	< 0.5% typ. at 100% load			
Load Regulation	< 1% typ. at 0-100% load			
PARD (20MHz)	<150mVpp			
Indicator	Green LED (DC OK)			
INPUT				
Input Voltage	85 - 264Vac, 120 - 375Vdc			
Input Frequency	47-63Hz			
Input Current	< 0.8A @ 230Vac	< 1.1A @ 230Vac	< 1.3A @ 230Vac	<3A @ 230Vac
Efficiency at 100% Load	> 90% at 230Vac	> 90% at 230Vac	> 92% at 230Vac	> 92% at 230Vac
Leakage Current	< 1mA @ 240Vac	< 1mA @ 240Vac	< 1mA @ 240Vac	< 3mA @ 240Vac
Power Factor	Conform to EN61000-3-2	Conform to EN61000-3-2	> 0.90 at 230Vac	> 0.95 at 230Vac
Max Inrush	< 35A at 230Vac	< 35A at 230Vac	< 35A at 230Vac	< 35A at 230Vac
ENVIRONMENTAL				
Operating Temperature	-25°C to +80°C	-25°C to +80°C	-25°C to +80°C	-25°C to +75°C
Cooling System	Convection			
Storage Temperature	-40°C to +85°C			
Power De-rating	> 50°C (2.5%/°C)			
Operating Humidity	< 95% RH (Non-Condensing)			
Operating Altitude	0 to 2.500m			
STANDARD				
Electronic Equipment	EN50718 / IEC62103 in Power Installations			
Electrical Safety	SIQ 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			

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PROTECTION	DRP024V060W1BN	DRP024V120W1BN	DRP024V240W1BN	DRP024V480W1BN
Overvoltage	32V +/-10% SELV Output, 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, Non-Latching (Auto Recovery)			
Short Circuit	Hiccup Mode, Non-Latching (Auto-Recovery) when the fault is removed			
Degree of Protection	IP20			
Protection against shock	Class 1 with PE (Primary Earth)			
Galvanic Isolation	Input to Output: 4.0KVAC Input to Ground: 1.5KVAC Output to Ground: 1.5KVAC			

MECHANICAL				
Case Cover	Aluminium	Aluminium	Aluminium	Aluminium
Dimensions	121 x 32 x 119.3mm	121 x 32 x 123.1mm	121 x 85 x 124.1mm	121 x 144 x 118.6mm
Weight	0.37Kg	0.72kg	1.1kg	1.37kg
Input Terminal	3pin pluggable 300V/15A	3pin pluggable 300V/15A	3pin pluggable 300V/15A	3pin pluggable 300V/30A
Input Wire	AWG 22-12	AWG 20-12	AWG 16-14	AWG 18-10
Output Terminal	2pin pluggable 300V/15A	4pin pluggable 300V/15A	4pin pluggable 300V/15A	4pin 300V/30A
Output Wire	AWG 22-12	AWG 20-12	AWG 16-14	AWG 12-10
Mounting Rail	TS35 DIN Rail	TS35 DIN Rail	TS35 DIN Rail	TS35 DIN Rail

PBB1P MODIFICATION	
IEC AC Input	See PBB1P Series for IEC Input option
Drip Hood Cover	See PBB1P Series for Drip Hood Cover option

SELECTION TABLE

MODEL NUMBER	OUTPUT VOLTAGE	OUTPUT CURRENT	POWER BOOST (5 SECS)	OUTPUT POWER
DRP024V060W1BN	24Vdc	2.5A	3.75A	60W
DRP024V120W1BN	24Vdc	5A	7.5A	120W
DRP024V240W1BN	24Vdc	10A	15A	240W
DRP024V480W1BN	24Vdc	20A	30A	480W

MODEL NUMBER PBB1P OPTION	OUTPUT VOLTAGE	OUTPUT CURRENT	DELTA POWER SUPPLY
PBB1P-120W-IEC-24V	24Vdc	5A	DRP024V120W1BN
PBB1P-240W-IEC-24V	24Vdc	10A	DRP024V240W1BN
PBB1P-480W-IEC-24V	24Vdc	20A	DRP024V480W1BN

PBB1P IEC INPUT - ASSEMBLY OPTION



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TECHNICAL ILLUSTRATIONS

