

# PBB1P-Series

AC/DC DIN RAIL WITH IEC INPUT

## FEATURES

- 100W - 120W
- DIN Rail Mountable
- IEC AC Input connector
- Corrosion resistant aluminum chassis
- Optional Condensation drip hood cover
- Conformal coating coating on PCB assembly
- Protected against common dust and chemical pollutants
- Operating Temperature -25°C to 80°C
- High Efficiency > 90%
- 150% Power Boost
- MTBF > 500 000hrs



## SPECIFICATIONS

INPUT		ENVIRONMENTAL	
Input Voltage Range	85-264Vac (DC input range 120-375Vdc)	Operating Temperature	-25°C to +80°C
Input Frequency	47-63Hz	Storage Temperature	-25°C to +85°C
Input Current	< 1.10A @ 230Vac	Power De-rating	> 50°C (2.5% / °C)
Efficiency	> 90.0% @ 230Vac @ 100% load	Cooling System	Convection
Leakage Current	< 1mA @ 240Vac	Operating Humidity	< 95% RH (Non-Condensing)
OUTPUT		Operating Altitude	0 to 2,500m
Output Voltage	24Vdc, 48Vdc	MECHANICAL	
Output Voltage Range	24V - 28Vdc, 48V-56Vdc	Case Cover	Aluminium
Output Current	See Selection Table	Dimensions (L x W x D)	121 x 50 x 123.1 mm
Output Power	See Selection Table	Unit Weight	0.72 kg
Indicator	Green LED (DC OK)	Mounting Rail	Standard TS35 DIN Rail in accordance with EN60715
Line Regulation	< 0.5% typ. @ 100% load	Input Connector	IEC Socket (with 2M IEC power cable)
Load Regulation	< 1% typ. @ 0-100% load	Output Connector	12V: M4 x 2 Pins (Rated 300V/20A) 24V, 48V: Pluggable Connector 4 Pins (Rated 300V/15A) Output Wire: AWG20-12
PARD (20MHz)	< 200mVpp	Mounting L Bracket	Optional Mounting Bracket Available See technical illustrations
Hold-up Time	> 20ms	Driphood Cover	Optional Condensation Driphood Cover Available Attached Above Power Supply Unit
PROTECTIONS		STANDARDS	
Overvoltage	32V, +/-10% SELV Output, Hiccup Mode, Non-Latching (Auto-Recovery)	C-Tick	AS/NZS CISPR11 Group 1 Class A.
Overload/Overcurrent	> 150% of rated load current, Hiccup Mode, Non-Latching (Auto-Recovery)	Electronic Equipment	EN50718 / IEC62103, In Power Installations
Over Temperature	< 80°C Surrounding Air Temperature @ 100% load, Non-Latching (Auto Recovery)	Electrical Safety	SIQ to EN60950-1, UL/cUL recognized to UL60950-1, CSA C22.2 No. 60950-1, CB scheme to IEC60950-1
Short Circuit	Hiccup Mode, Non-Latching (Auto-Recovery) when the fault is removed)	Industrial Control Equipment	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)
Degree of Protection	IP20	CE	In conformance with EMC Directive 2004/108/EC and Low Voltage Directive 2006/95/EC
Protection against shock	Class 1 with PE (Primary Earth) connection	Materials & Parts	RoHS Directive 2011/65/EU Compliant
Galvanic Isolation	Input to Output: 4.0KVAC Input to Ground: 1.5KVAC Output to Ground: 1.5KVAC		
RELIABILITY			
MTBF	> 500,000 hrs as per Telcordia SR-332 I/P: 115Vac, O/P: 100% load, Ta 25°C		
Expected Life Time	10 years (230Vac 50% load @ 40°C)		

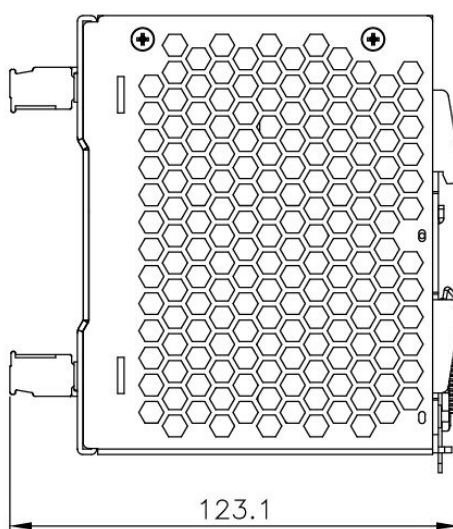
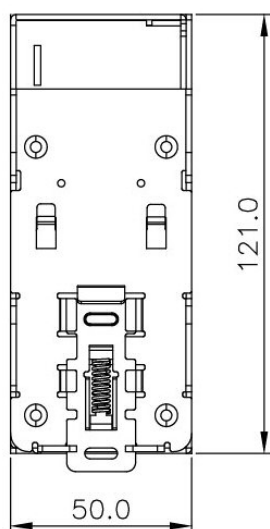
# PBB1P-Series

AC/DC DIN RAIL WITH IEC INPUT

## SELECTION TABLE

MODEL NUMBER	OUTPUT	IEC SOCKET	DELTA POWER SUPPLY
PBB1P-100W-IEC-12V	12V / 8A	Y	DRP012V100W1AA
PBB1P-120W-IEC-24V	24V / 5A	Y	DRP024V120W1BN
PBB1P-120W-IEC-48V	48V / 2.5A	Y	DRP048V120W1BN

## TECHNICAL ILLUSTRATIONS



Please note the 12V Version comes with Screw Terminal instead of Connectors.