

PBDRN120 Series

120 WATTS - AC/DC DIN RAIL MOUNTABLE - INDUSTRIAL CONTROL

FEATURES

- Input voltage 115/230VAC auto select
- DC input voltage 210-370Vdc (230V selected)
- Compact and robust design with easy mounting on TS35 Din-Rail
- DC OK relay contact
- High efficiency up to 87%
- Parallel function available (switch)
- Operational temperature between to -10 to +61°C
- Local and international Approvals; C-Tick, CE, UL, cUL, TUV



SPECIFICATIONS

INPUT	
Input voltage	115/230VAC (auto select)
Input voltage range	115V selected 90 - 132VAC 230V selected 180 - 264VAC DC 210 - 375VDC
Input current	Vi: 115/230VAC, 2.2/0.83mA
Line frequency	47-63Hz
Inrush current	Vi: 115/230VAC, 24/48A
Power dissipation	Vi: 230VAC, Io nom 12V 24W, 24V 20W, AL/BL 16W and 48V 19W
Leakage current	Input-Output 0.25mA Input-FG 3.5mA
OUTPUT	
Voltage range	95 to 115% of Vi nom
Hold-up time	Vi: 115/230VAC, 25/30ms
Ripple and noise	BW = 20MHz, 50 mV
Capacitor load	12V 7000µf 24V and 48V 3500µf
ENVIRONMENTAL	
Relative humidity	20-95%
Storage temperature	-25 to +85°C
Isolation voltage	Input-Output at 3000 VAC Input-FG 1500VAC

Ambient temperature	-10 to +71°C
Derating	From +61°C to +71°C, 2.5% per °C
Temperature coefficient	±0.03%/°C
Cooling	Free air convection
Dimensions	L124.5 x W64 x D123.6mm

GENERAL	
Efficiency	84% - 87% typical, model dependant
Switching frequency	55KHz
Weight	920g

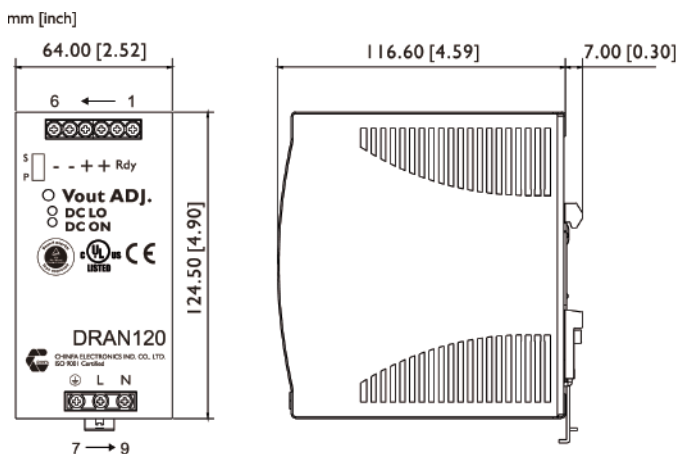
STANDARDS	
Safety standards	UL508 Listed, UL60950-1, UL1310 Class 2 Power (24V AC/DC models only) Recognised ISA 12.12.01 (Class 1, Division 2, Groups A,B,C and D)
C tick	AS/NZ CISPR11 Group 1, Class A
EMI standards	EN 61000-6-3 EN 55022 Class B EN 61000-3-2, EN 61000-3-3

SELECTION TABLE

MODEL NUMBER	OUTPUT	POWER
PBDRN120S12-A*	+ 12 VDC 10A	120 WATTS
PBDRN120S24-A*	+ 24 VDC 5A	120 WATTS
PBDRN120S48-A*	+ 48 VDC 2.5A	120 WATTS

*Non indent item

MECHANICAL & PIN CONFIGURATION



CONSTRUCTION

Easy snap-on mounting onto the DIN-Rail (TS35/7.5 or TS35/15), unit sits safely and firmly on the rail.

INSTALLATION

Ventilation / Cooling
Normal convection
All sides 25mm free space
For cooling recommended
Connector size range
Screw terminal:
AWG24-10 (0.2~4mm²) flexible / solid cable,
-Input connector can withstand torque at maximum 9 pound-inches.
-Output connector can withstand torque at maximum 5.5 pound-inches.
8 m/m stripping at cable end recommends
Detachable connector:
AWG24-12 (0.2~2.5mm²) flexible / solid cable,
-Input connector can withstand torque at maximum 4.5 pound-inches.
-Output connector can withstand torque at maximum 7 pound-inches.
4~5 m/m stripping at cable end recommends
Use copper conductors only, 60 / 75°C