

PBDRN120 Series

120W - AC/DC DIN RAIL MOUNTABLE

FEATURES

- 120W AC/DC DIN Rail Power Supply
- Outputs 12V 24V 48V
- DIN Rail Mount TS35
- Parallel function (Switch)
- DC OK Relay Contact (for 24V model only)
- Operating Temperature -10°C to +61°C
- Industrial Control

SPECIFICATIONS

INPUT	
Input voltage	115Vac (90 - 132Vac)
	230Vac (180V - 264Vac)
	210 - 375Vdc
Input current	115Vac, 2.2A
	230Vac 0.83A
Line frequency	47-63Hz
Inrush current	48A @ 230Vac
Leakage current	Input-Output 0.25mA
	Input-FG 3.5mA
OUTPUT	
Nominal Voltage	12V, 24V, 48Vdc (See selection table)
Voltage range	95 to 115% of Vi nom
Hold-up time	BW = 20MHz, 50 mV
Ripple and noise	BW = 20MHz, 100 mV
Temperature coefficient	+0.03%/°C
Capacitor load	12V 7000µf
	24V and 48V 3500µf
Efficiency	84% - 87% typical, model dependant
Switching frequency	55KHz
DC OK relay contact	For 24V model only
PROTECTION	
Isolation Voltage	Input-Output: 3000Vac
	Input-FG: 1500Vac
	Output-FG: 500Vac
Isolation Resistance	Input-Output @ 500Vdc: 100Mohm
MTBF	12V, 24V > 509Khrs
	48V > 600Khrs



ENVIRONMENTAL

Operating temperature	-10°C to +71°C
Derating	From +61°C to +71°C, 2.5% per °C
Cooling	Free air convection
Storage temperature	-25 to +85°C
Relative humidity	20-95%

APPROVALS

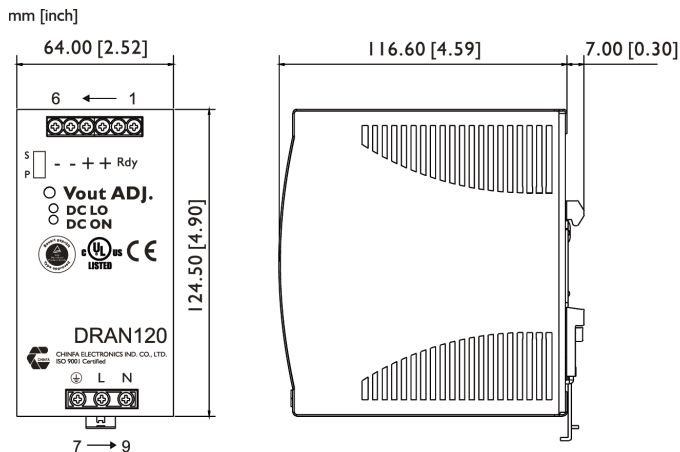
Safety standards	UL508 Listed, UL60950-1, UL1310 Class 2
	Recognised ISA 12.12.01 (Class 1, Div 2, Grp A,B,C,D)
EMI standards	EN 61000-6-3
	EN 55022 Class B EN 61000-3-2,
	EN 61000-3-3

MECHANICAL

Connection	Screw terminal
Dimensions	124.5 x 64 x 123.6mm
Weight	920g

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



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