

PBDR480 Series

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

AC/DC DIN RAIL MOUNTABLE

FEATURES

- Heavy duty AC/DC din rail power module
- Universal input 90-264Vac
- DC input voltage 120-370Vdc
- Compact and robust design with easy mounting on TS35 Din-Rail
- DC OK relay contact
- High efficiency up to 90%
- 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
Input current	Vi: 115/230VAC, 6.9/3.3A
Line frequency	47-63Hz
Inrush current	Vi: 115/230VAC, 25/50A
Power dissipation	Vi: 230VAC, 24V 63W, 48V 60W
Leakage current	Input-Output 0.25mA Input-FG 3.5mA
OUTPUT	
Voltage range	Up to 115% of Vi nom
Hold-up time	Vi: 115/230VAC, 25/30ms
Ripple and noise	BW = 20MHz, 100 mV
Capacitor load	7000µf
ENVIRONMENTAL	
Storage temperature	Non Operational -25 to 85°C
Relative humidity	20-95%
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 W175.5 x D123.6 mm
GENERAL	
Efficiency	89% - 90% typical, model dependant
Switching frequency	60KHz
Weight	1,920g
STANDARDS	
Safety standards	UL508 Listed, UL60950-1 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 Class D, EN 61000-3-3

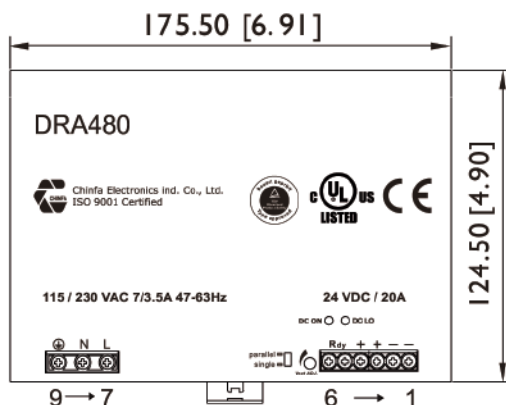
SELECTION TABLE

MODEL NUMBER	OUTPUT	POWER
PBDR480S24-A*	+ 24 VDC 20A	480 WATTS
PBDR480S48-A*	+ 48 VDC 10A	480 WATTS

* Non indent item

MECHANICAL & PIN CONFIGURATION

mm [inch]



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