

PBDRW480 Series

480WATTS - 3PH AC/DC DIN RAIL MOUNTABLE - INDUSTRIAL CONTROL

FEATURES

- 3 Phase AC Input Voltage
- Compact Design
- Wide Range Input
- High Efficiency up to 91%
- Parallel Function available (switch)
- Operational temperature between -10 to +61°C
- Local and international Approvals; C-Tick, CE, UL, cUL, TUV



SPECIFICATIONS

INPUT	
Input voltage	3PH 340 ~ 575 VAC
Input voltage range	AC in 340-575VAC, DC in 480-820VDC
Input current	V: 400/500VAC, 1.1/0.93A
Line frequency	47-63Hz
Inrush current	20A typical
Power dissipation	Vi: 400VAC, 12V 20W, 24V 16W
Leakage current	Input-Output 0.25mA Input-FG 3.5mA
OUTPUT	
Voltage range	24V: 22.5 to 28.5Vdc 48V: 47 to 56Vdc
Hold-up time	20ms
Ripple and noise	BW = 20MHz, 100 mV
Capacitor Load	7000µf
ENVIRONMENTAL	
Storage temperature	Non Operational -25 to +85°
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	124 x 150 x 118.8mm
GENERAL	
Efficiency	90% typical, model dependant
Switching frequency	80KHz
Weight	1,720g
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

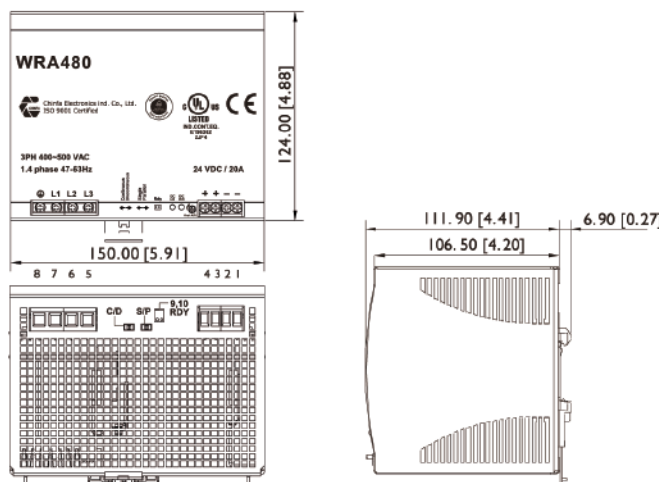
SELECTION TABLE

MODEL NUMBER	OUTPUT	POWER
PBDRW480-24*	+ 24 VDC 20A	480 WATTS
PBDRW480-48*	+ 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
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
Use copper conductors only, 60 / 75°C

GENERAL TOLERANCE	
0.00[0.00] - 30.00[1.18]	±0.30[0.01]
30.00[1.18] - 120.00[4.72]	±0.50[0.02]
120.00[4.72] - 400.00[15.75]	±0.80[0.03]