

# PBDRW960 Series

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

AC/DC DIN RAIL MOUNTABLE

## FEATURES

- 3 Phase AC Input Voltage
- Compact Design
- High Efficiency up to 93%
- 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	3PH 340 ~ 575 VAC
Input current	V: 400/500Vac, 1.72/1.5A
Line frequency	47-63Hz
Inrush current	24V and 48V 30A typical Cold start 24L 50A typical
Power dissipation	Vi: 400VAC, 24V 98W, 48V 90W
Leakage current	Input-Output 0.25mA Input-FG 3.5mA
OUTPUT	
Voltage range	24V: 22.5-28.5VDC 48V: 47-56VDC
Hold-up time	15ms
Ripple and noise	BW = 20MHz, 80 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	126.2 x 275.8 x 118.8 mm

GENERAL	
Efficiency	92% typical, model dependant
Switching frequency	80KHz
Weight	3,400g

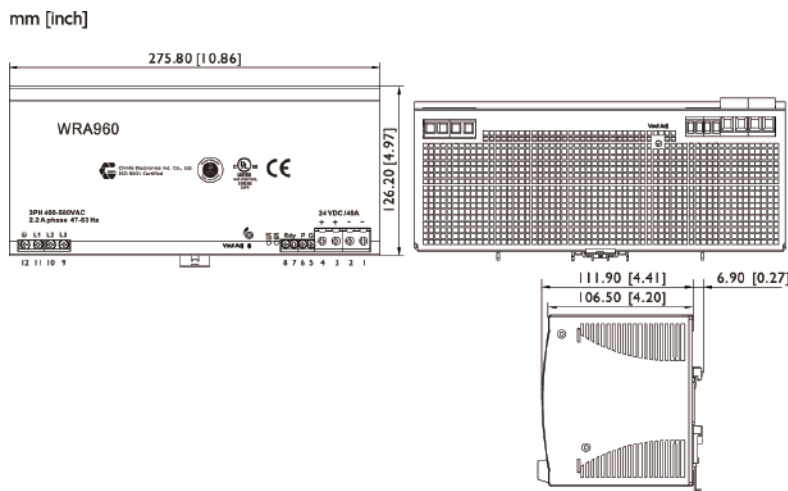
STANDARDS	
Safety standards	UL508 Listed, UL60950-1 Recognised ISA 12.12.01 (Class 1, Division 2, Groups A,B,C and D)
C tick	AS/NZ CISPR11 Group 1, Class A
EMI standards	EN 61000-6-3 EN 55022 Class B EN 61000-3-2, EN 61000-3-3

## SELECTION TABLE

MODEL NUMBER	OUTPUT	POWER
PBDRW960-24*	+ 24 VDC 40A	960 WATTS
PBDRW960-48	+ 48 VDC 20A	960 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  
Input and Rdy, P, G Control : AWG24 - 10 (0.2~4mm<sup>2</sup>), flexible / solid cable  
Output : AWG20 - 6 (0.5~10mm<sup>2</sup>), flexible / solid cable  
- Input connector can withstand torque at maximum 9 pound-inches  
Rdy, P, G control connector can withstand torque at maximum 5.5 pound-inches  
8m/m stripping at cable end recommends  
- Output connector can withstand torque at maximum 15.6 pound-inches  
10m/m stripping at cable end recommends  
Use copper conductors only, 60 / 75°C