

PBDRW120 Series

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

FEATURES

- 3 Phase AC Input Voltage
- Compact Design
- Wide range input
- High Efficiency up to 89%
- Parallel Function available (switch)
- Operational temperature between -10 to +61°C
- Local and international Approvals; C-Tick, CE, UL, cUL, TUV



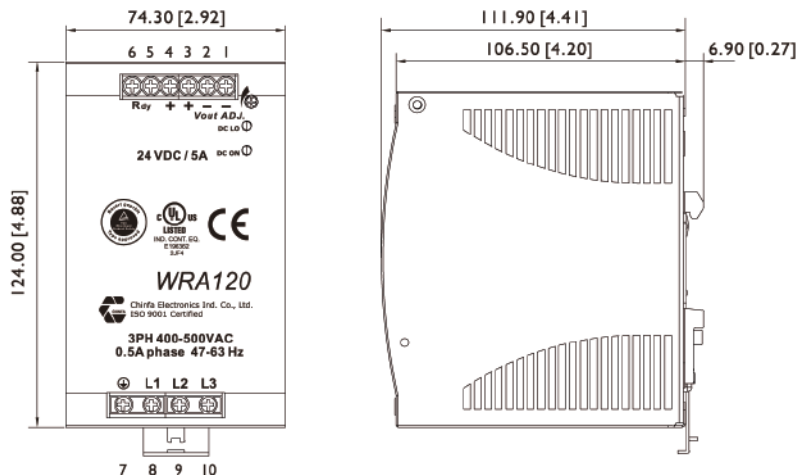
SPECIFICATIONS

| INPUT | |
|---------------------|--|
| Input voltage | 3PH 340 ~ 575 VAC |
| Input current | V : 400/500VAC, 0.36/0.3A |
| Line frequency | 47-63Hz |
| Inrush current | 20A typical - 12A max |
| Power dissipation | Vi: 400VAC, 24V 30W, 48V 24W |
| Leakage current | Input-Output 0.25mA Input-FG 3.5mA |
| OUTPUT | |
| Voltage range | 95 to 115% of Vi nom |
| 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 | 123.6 x 74.3 x 110.7 mm |
| GENERAL | |
| Efficiency | 87% - 89% typical, model dependant |
| Switching frequency | 70KHz |
| Weight | 800g |
| 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 |

MECHANICAL & PIN CONFIGURATION

mm [inch]



SELECTION TABLE

| MODEL NUMBER | OUTPUT | POWER |
|--------------|--------------|-----------|
| PBDRW120-12* | + 12 VDC 10A | 120 WATTS |
| PBDRW120-24* | + 24 VDC 5A | 120 WATTS |

*Non indent item

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