

PBDRN30 Series

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

FEATURES

- AC/DC power module
- Universal input 85 - 264VAC
- DC input voltage 90-375Vdc
- Compact and robust design with easy mounting on TS35 Din-Rail
- DC OK relay contact
- High efficiency up to 86%
- Short circuit protection
- Internal input filter
- Operational temperature between to -40 to +61°C
- Local and international Approvals; C-Tick, CE, UL, cUL, TUV



SPECIFICATIONS

INPUT	
Input voltage range	85-264VAC
Input current	Vi: 115/230VAC, 560/330mA
Line frequency	47-63Hz
Inrush current	Vi: 115/230VAC, 20/40A
Power dissipation	Vi: 230VAC, Io nom 5V 8.5W, 12V 5.6W, 24V 5.5W and 48V 4.9W
Leakage current	Input-Output 0.25mA Input-FG 3.5mA

OUTPUT	
Voltage range	For 5V, up to 110% of Vi nom. Other units, up to 115% of Vi nom
Hold-up time	Vi: 115/230VAC, 20/30ms
Ripple and noise	BW = 20MHz, 50 mV
Capacitor load	3500µf

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	-40 to +71°C
Derating	From +61°C to +71°C, 2.5% per°C
Temperature coefficient	±0.03%/°C

Cooling	Free air convection
Dimensions	90 x 40.5 x 115 mm

GENERAL	
Efficiency	79% - 86% typical, model dependant
Switching frequency	132KHz
Weight	270g

STANDARDS	
Safety standards	UL508 Listed, UL60950-1, UL1310 Class 2 Power (5V model only) 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

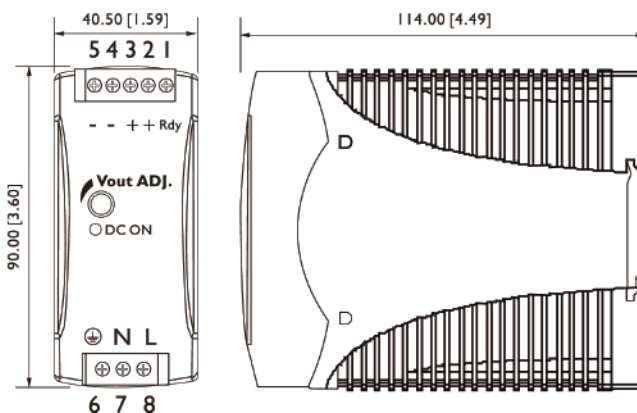
SELECTION TABLE

MODEL NUMBER	OUTPUT	POWER
PBDRN30S05-A*	+ 5 V 6000 mA	30W
PBDRN30S12-A*	+ 12V 2400 mA	30W
PBDRN30S24-A*	+ 24 V 1250 mA	30W
PBDRN30S48-A*	+ 48 V 625 mA	30W

*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:
AWG26-12 (0.2~2.5mm²) flexible / solid cable, connector can withstand torque at maximum 5 pound-inches.
4~5 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]