

AC-DC Power Supply



Part No. See Chart

Features

- *UL 508 Listed
- *UL Class 2 output
- *Potentiometer for volt adjustment
- *Only 7/8 inch wide
- *AC/DC Power module
- *Small footprint
- *High efficiency - up to 77%
- *Automatic short circuit protection
- *Automatic overload protection
- *Internal input filter
- *Power Rdy: output on 24VDC models
- *Red LED: DC low indicator
- *Din rail mounting clip included

| Old Model No. | New Model No. | Input Voltage | Output Wattage | Output Voltage | Output Current | Eff. (Typ.) |
|-----------------------------|---------------|---------------|----------------|----------------|----------------|-------------|
| Single Output Models | | | | | | |
| PSD05-05 | PSD05-05 | 85~264 VAC | 5 WATTS | 5 VDC | 1.00 Amp | 68% |
| PSD05-12 | PSD05-12 | 85~264 VAC | 5 WATTS | 12 VDC | .42 Amps | 72% |
| PSD05-15 | PSD05-15 | 85~264 VAC | 5 WATTS | 15 VDC | .34 Amps | 72% |
| PSD05-24 | PSD05-24 | 85~264 VAC | 5 WATTS | 24 VDC | .21 Amps | 72% |
| PSD10-05 | PSD10-05 | 85~264 VAC | 10 WATTS | 5 VDC | 2.00 Amps | 72% |
| PSD10-12 | PSD10-12 | 85~264 VAC | 10 WATTS | 12 VDC | .84 Amps | 74% |
| PSD10-15 | PSD10-15 | 85~264 VAC | 10 WATTS | 15 VDC | .67 Amps | 75% |
| PSD18-05 | PSD18-05 | 85~264 VAC | 15 WATTS | 5 VDC | 3.00 Amps | 72% |
| PSD18-12 | PSD18-12 | 85~264 VAC | 18 WATTS | 12 VDC | 1.50 Amps | 74% |
| PSD18-15 | PSD18-15 | 85~264 VAC | 18 WATTS | 15 VDC | 1.20 Amps | 75% |
| PSD18-24 | PSD18-24 | 85~264 VAC | 18 WATTS | 24 VDC | .75 Amps | 77% |



Specifications

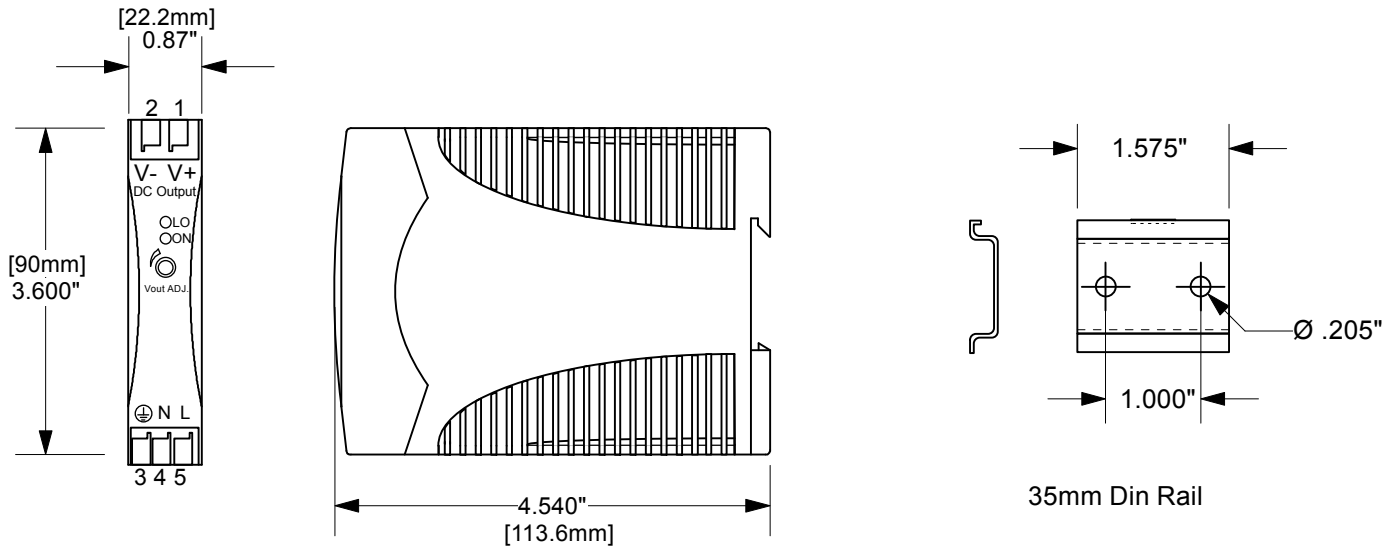
- *Switching frequency: > 100kHz
- *Isolation voltage: 3,000VAC
- *Isolation resistance: 100MΩ (min.)
- *Operating ambient temperature: -10° to +50°C
- *Storage temperature: -25° to +85°C
- *Relative humidity: 20% to 95% RH
- *Cooling: free air convection
- *Transient recovery time:
 - DRA05 Series - 300μ seconds
 - DRA10 Series - 500μ seconds
 - DRA18 Series - 1000μ seconds
 - All - 50% load step change
- *Temperature coefficient: 0.02% °C
- *Dimension: 4.53 x 3.60 x 0.87in (115 x 90 x 22.5mm)
- *Approvals: : UL508 Listed, UL1950, UL1310
 UL File No. E196362, E231718
 TUV: EN60950
 CE: EN50081-1 / EN55022 for EMI
 EN50082-1 / EN55024 for EMS
 FCC: Class B

Input

- *Input voltage range / frequency: 85 ~ 264 VAC / 47 ~ 63 Hz
- *Max. Input voltage: 265 VAC
- *Inrush current: <10A @ 110VAC
 <18A @ 230 VAC
- *Input fuse: T2A / 250 VAC

Output

- *Output voltage accuracy: ±1% @ Vo_nom
- *Output overload: 110~135%
- *Line regulation: ±1% @ Vo_nom
- *Load regulation: ±2% @ Vo_nom
- *Ripple & noise: 100mV (max.)
- *Efficiency: up to 77%, see model list
- *Case material: plastic
- *DC ok indicator: green LED
- *DC low indicator: red LED



PIN ASSIGNMENT

| PIN NO. | Designation | Description | |
|---------|-------------|-------------|--|
| 1 | OUT | V+ | Positive output terminal |
| 2 | | V- | Negative output terminal |
| 3 | IN | \oplus | Ground this terminal to minimize high-frequency emissions |
| 4 | | N | Input terminals (neutral conductor, no polarity at DC input) |
| 5 | | L | Input terminals (phase conductor, no polarity at DC input) |
| | OTHER | ON | Operation indicator LED |
| | | LO | DC LOW indicator LED |
| | | Vout Adj. | Adjustable -10 to +15% |

CONSTRUCTION

Enclosed plastic housing with fine ventilation grid. Easy snap-on mounting onto the 35mm DIN-Rail. Unit sits safely and firmly on the rail; no tools required even to remove.

INSTALLATION

Ventilation / Cooling: Normal convection above/below 25mm free space for cooling recommended.

Connector size range: solid : 0.2-2.0mm (AWG24-14)

DERATING

