

POWER

DPS50

60 Watts

Data Sheet

Total Power: 30 - 60 Watts
Input Voltage: 90 - 264 Vac
127 - 300 Vdc
of Outputs: Single



SPECIAL FEATURES

- CE Mark EMC & LVD (except DPS52)
- Universal AC input
- Fully regulated output
- Overload and short circuit protection
- Internal remote sense to the output plug
- Constant voltage
- Level V efficiency (except DPS52)
- High MTBF
- IEC320 AC receptacle, 3 pin (type C14)
- Built in EMI filter (CISPR 22 Class B)
- LED power good indicator
- Input power < 74 watts
- Complies with EN61000-3-2
- Meets Energy Star

SAFETY

- UL UL 60950-1
- CSA CSA-C22.2 no.60950-1
- VDE EN60950-1
- CE EMC, LVD & ErP 2011 (except DPS52)
- CB Certificate and report
- PSE Denan 06-03051012

Electrical Specifications

| Input | |
|-------------------------------|--|
| Input range | 90 - 264 Vac (wide range) |
| Frequency | 127 - 300 Vdc |
| Inrush current | 47-440 Hz |
| Input current | < 60 A @ 230 Vac, cold start @ 25 °C |
| Efficiency | < 2.0 A rms @ 115 Vac; < 1 A @ 230 Vac |
| EMI/RFI | 80% @ full load typical, @115 Vac |
| Safety ground leakage current | FCC Part 15, Subpart B Class B & EN55022 (CISPR 22) Class B 0.5 mA @ 50/60 Hz, 264 Vac input |
| Output | |
| Maximum Power (Po) | 60 W (DPS52, 30 W) |
| Hold-up time | 10ms. typical at full load @ 115 Vac |
| Overvoltage protection | 20% - 45% above nominal output maximum Latching type, recycle AC to reset. |
| Overcurrent protection | Output short circuit protection auto recover Overload protected @ 120 - 150% above maximum rating |
| Cable/connector | DC cable with 2.5 mm center plug DC plug center +v DC plug outer -v |

Environmental Specifications

| | |
|---------------------------------|---|
| Operating temperature: | 0° to +40 °C ambient. -20 °C start up |
| Storage temperature: | -40 °C to +85 °C |
| Electromagnetic susceptibility: | Designed to meet EN61000-4, -2, -3, -4, -5, -6, -8, -11, level 3 |
| Humidity: | Operating; non-condensing 5% to 90% RH |
| Vibration: | Three orthogonal axes, 3 sweeps per axe at 1 oct/min. 2G peak 8 Hz to 500 Hz, operational |
| MTBF demonstrated: | > 550,000 hours at full load and 25 °C ambient conditions |

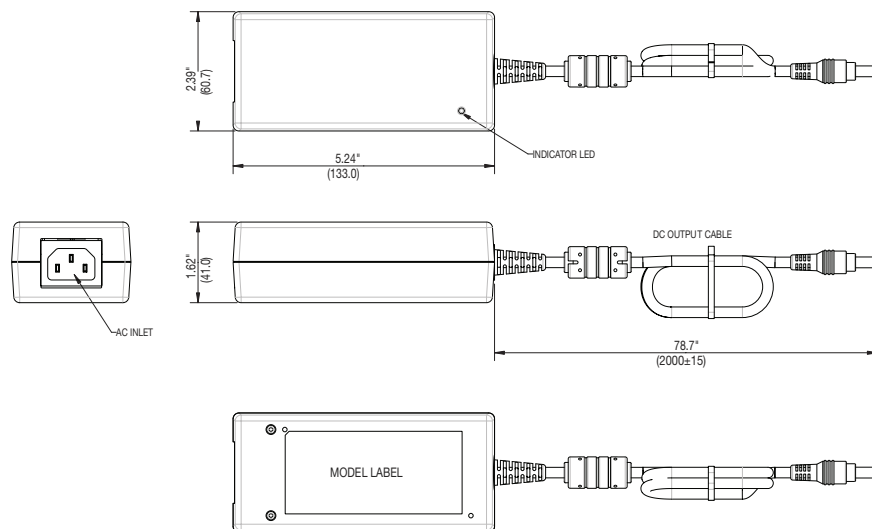
Ordering Information

| Model Number | Maximum Power | Output Voltage | Maximum Load | Peak Load ¹ | Regulation ² | Ripple P/P (PARD) ³ |
|--------------|---------------|----------------|--------------|------------------------|-------------------------|--------------------------------|
| DPS52* | 30 W | 5 V | 6 A | 6.5 A | ± 2% | 50 mV |
| DPS53 | 60 W | 12 V | 5 A | 5.4 A | ± 2% | 120 mV |
| DPS54 | 60 W | 15 V | 4 A | 4.3 A | ± 2% | 150 mV |
| DPS55 | 60 W | 24 V | 2.5 A | 2.7 A | ± 2% | 240 mV |
| DPS58 | 60 W | 48 V | 1.25 A | 1.35 A | ± 2% | 480 mV |

1. Peak current lasting < 15 seconds with a maximum 10% duty cycle.
2. At 25 °C including initial tolerance, line voltage, load currents and output voltages adjusted to factory settings.
3. Peak-to-peak with 20 MHz bandwidth and 10 µF (tantalum capacitor) in parallel with a 0.1 µF capacitor at rated line voltage and load ranges.

* No CE approval under new EUP directive

Mechanical Drawing



Notes:

1. Specifications subject to change without notice.
2. All dimensions in inches (mm), tolerance is ± 0.02" (± 0.5 mm)
3. Warranty: 2 year
4. Weight: 1.06 lb./.48 kg
5. AC input power cord sold separately.
6. Specifications are for convection rating at factory settings at 115 Vac input, 25 °C unless otherwise stated

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