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DPS50 60 Watts

Total Power: Input Voltage: # of Outputs: 30 - 60 Watts 90 - 264 Vac 127 - 300 Vdc 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
- WEEE & CeC IV compliant

Safety

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





Electrical Specifications

| Input | | | | | |
|----------------------------------|--|--|--|--|--|
| Input range | 90 - 264 Vac (wide range) 127 - 300 Vdc | | | | |
| Frequency | 47-440 Hz | | | | |
| Inrush current | < 60 A @ 230 Vac, cold start @ 25 °C | | | | |
| Input current | < 2.0 A rms @ 115 Vac; < 1 A @ 230 Vac | | | | |
| Efficiency | 80% @ full load typical, @115 Vac | | | | |
| EMI/RFI | FCC Part 15, Subpart B Class B & EN55022 (CISPR 22) Class B | | | | |
| Safety ground leakage current | 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. | | | | |
| Overload 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 | | | | |
| End the same and | | | | | |

Environmental Specifications

| Operating temperature: | 0° to +40 °C ambient. Derate each output as 2.5% per degree from 40 °C to 60 °C20 °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 10% 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 | |

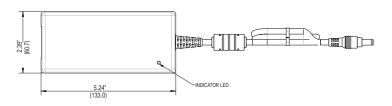
1. Peak current lasting < 15 seconds with a maximum 10% duty cycle.

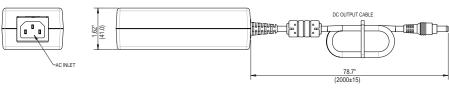
2. At 25 °C including initial tolerance, line voltage, load currents and output voltages adjusted to factory settings.

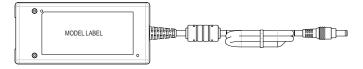
3. Peak-to-peak with 20 MHz bandwidth and 10 μF (tantalum capacitor) in parallel with a 0.1 μF capacitor at rated line voltage and load ranges.

* 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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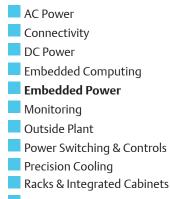
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