## **DPS50**

60 Watts

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

Single



Rev. 03.16.11\_122 DPS50



## **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 pluq
- 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

90 - 264 Vac (wide range) Input range 127 - 300 Vdc

47-440 Hz Frequency

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 0.5 mA @ 50/60 Hz, 264 Vac input

leakage current

Output

Maximum Power (Po) 60 W (DPS52, 30 W)

10ms. typical at full load @ 115 Vac Hold-up time

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 DC cable with 2.5 mm center plug Cable/connector

DC plug center +v

DC plug outer -v

## Environmental Specifications

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

40 °C to 60 °C. -20 °C start up

Storage temperature: -40 °C to +85 °C

Electromagnetic

Designed to meet EN61000-4, -2, -3, -4, -5, -6, -8, -11, level 3

susceptibility:

Humidity: Operating; non-condensing 10% to 90% RH

Three orthogonal axes, 3 sweeps per axe at 1 oct/min. 2G peak 8 Hz Vibration:

to 500 Hz, operational

MTBF demonstrated: > 550,000 hours at full load and 25 °C ambient conditions





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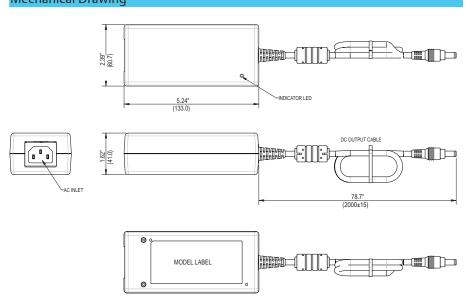
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- 1. Peak current lasting < 15 seconds with a maximum 10% duty cycle.
- 2. At 25 °C including initial tolerance, line voltage, load currents and output voltages adjusted to factory settings.
- 3. Peak-to-peak with 20 MHz bandwidth and 10  $\mu$ F (tantalum capacitor) in parallel with a 0.1  $\mu$ F 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  $\pm$  0.02" ( $\pm$  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