# Rev. 10.01.08 123 DPS50-M

# DPS50-M

# 60 Watts

## Medical

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

Single



- Medical safety approvals
- CE Mark EMC & LVD
- Universal AC input
- Fully regulated output
- Overload and short circuit protection
- Internal remote sense to the output pluq
- Constant voltage
- High efficiency
- 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 60601-1

**CSA** CSA-C22.2 no.601.1-M90 **VDE** 07501/EN60601-1 (IEC601)

CE **EMC & LVD** 





# **Electrical Specifications**

#### Input

Input range 90-264 VAC (wide range)

127 - 300 VDC

Frequency 47-440 Hz

Inrush current <60A @ 230 VAC, cold start @ 25C Input current <2.0A rms @ 115 VAC; <1A @ 230 VAC Efficiency 80% @ full load typical, @115VAC

EMI/RFI FCC Part 15, Subpart B Class B & EN55022 (CISPR 22) Class B

275µA max. @ 50/60 Hz, 264 VAC input Safety ground

leakage current

## Output

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

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

20% - 45% above nominal output maximum Overvoltage protection

Latching type, recycle AC to reset.

Overload protection Output short circuit protection auto recover

Overload protected @ 120 - 150% above maximum rating

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

DC cable with 2.5mm 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:

Electromagnetic susceptibility:

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

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

to 500Hz, operational

MTBF demonstrated: >550.000 hours at full load and 25°C ambient conditions



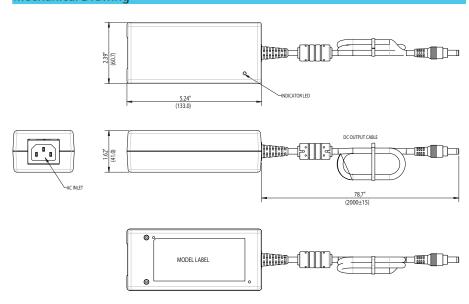


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Ordering Information						
Model Number	Maximum Power	Output Voltage	Maximum Load	Peak Load¹	Regulation <sup>2</sup>	Ripple P/P (PARD)³
DPS52-M	30W	5V	6A	6.5A	±2%	50mV
DPS53-M	60W	12V	5A	5.4A	±2%	120mV
DPS54-M	60W	15V	4A	4.3A	±2%	150mV
DPS55-M	60W	24V	2.5A	2.7A	±2%	240mV
DPS58-M	60W	48V	1.25A	1.35A	±2%	480mV

- 1. Peak-to-peak with 20MHz bandwidth and  $10\mu F$  tantalum capacitor in parallel with a  $0.1\,\mu F$  capacitor.
- 2. At 25°C including initial tolerance, line voltage, load currents and output voltages adjusted to factory settings.
- 3. Peak-to-peak with 20MHz bandwidth and  $10\mu F$  (tantalum capacitor) in parallel with a  $0.1\mu F$  capacitor at rated line voltage and load ranges.

## **Mechanical Drawing**



#### Notes:

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

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