

60 Watts

DPS50-M Series

Medical

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



Special Features

- Medical safety approvals
- CE Mark EMC & LVD
- Universal AC input
- Fully regulated output
- Overload and short circuit protection
- Internal remote sense
- 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

Environmental

Operating temperature: 0°C to +40°C ambient. Derate each output as 2.5% per degree from 40° to 60°C. -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; 10% to 95% 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

Electrical Specs

Input

Input range	90 - 264 VAC (wide range), 127 - 300 VDC
Frequency	47 - 440 Hz
Inrush current	<50A @ 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
Safety ground leakage current	275µA max. @ 50/60 Hz, 264 VAC input

Output

Maximum Power (Po)	60W (DPS52-M, 30W)
Hold-up time	10 ms. typical at full load @ 115VAC
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 barrel type	DC cable with 2.5 mm center plug DC plug center +v DC plug outer -v

Safety

UL	UL60601-1
CSA	CSA-C22.2 NO. 601.1-M90
VDE	07501/EN60601-1 (IEC601)
CE	EMC & LVD

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ASIA

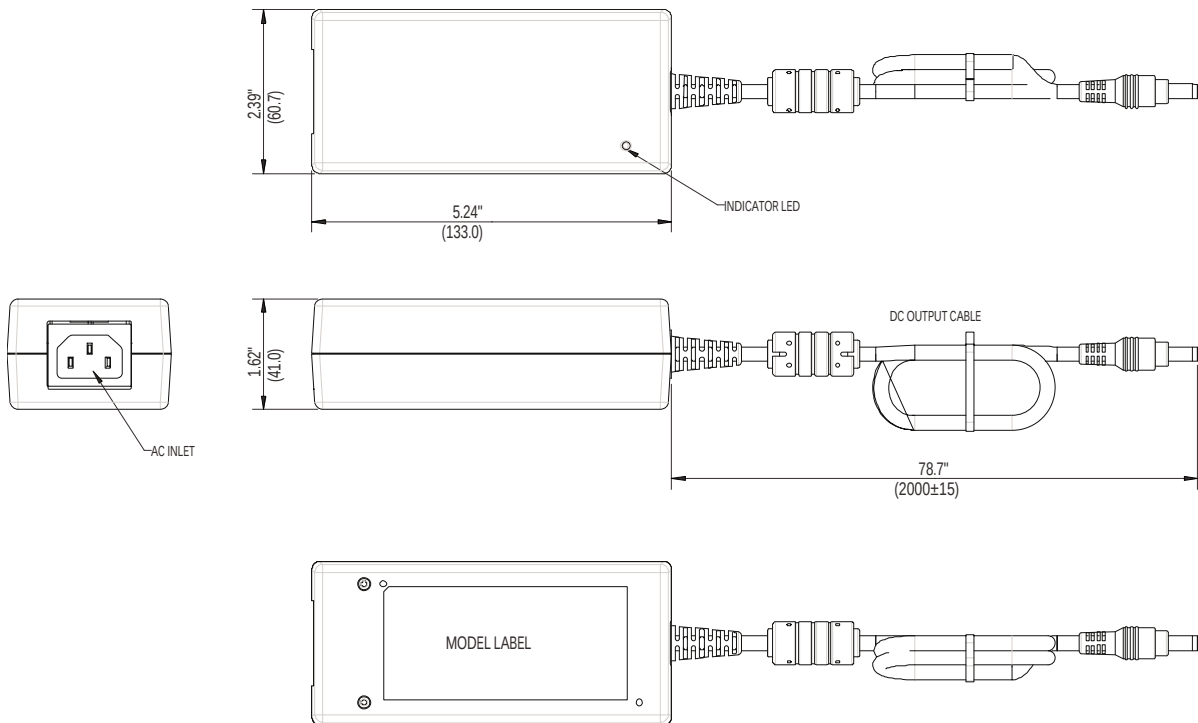
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Ordering Information

Model Number	Maximum Power	Output Voltage	Maximum Load	Peak Load ¹	Regulation ²	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 20 MHz bandwidth and 10 μ F tantalum capacitor in parallel with a 0.1 μ F capacitor.



NOTES:

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