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ELECTRONICS

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Jameco Part Number 1771667

DPS50-M

60 Watts

Medical

Total Power: 30 - 60 Watts
Input Voltage: 90 - 264 VAC
127 - 300 VDC
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 to the output plug
- 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

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 EN60601-1-2
Safety ground leakage current	275µA max. @ 50/60 Hz, 264 VAC input

Output

Maximum Power (Po)	60W (DPS52, 30W)
Hold-up time	10ms. 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	DC cable with 2.5mm center plug DC plug center +v DC plug outer -v

Environmental Specifications

Operating temperature:	0° to +40°C ambient. Derate each output as 2.5% per degree from 40°C 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 90% RH
Vibration:	Three orthogonal axes, 3 sweeps per axe at 1 oct/min. 2G peak 8Hz to 500Hz, operational
MTBF demonstrated:	>550,000 hours at full load and 25°C ambient conditions

Safety

UL	UL 60601-1
CSA	CSA-C22.2 no.601.1-M90
VDE	07501/EN60601-1 (IEC601)
CE	EMC & LVD

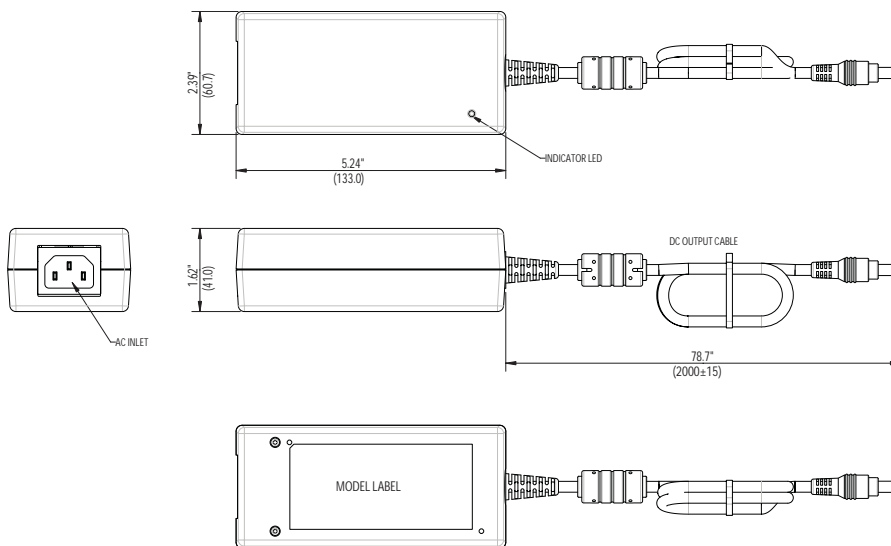


Ordering Information

Model Number	Maximum Power	Output Voltage	Maximum Load	Peak Load ¹	Regulation ²	Ripple P/P (PAR) 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 10µF tantalum capacitor in parallel with a 0.1 µF 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 10µF (tantalum capacitor) in parallel with a 0.1µF 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 ± 0.02" (±0.5mm)
3. Warranty: 1 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 115VAC input, 25°C unless otherwise stated

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Printed in USA

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