

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

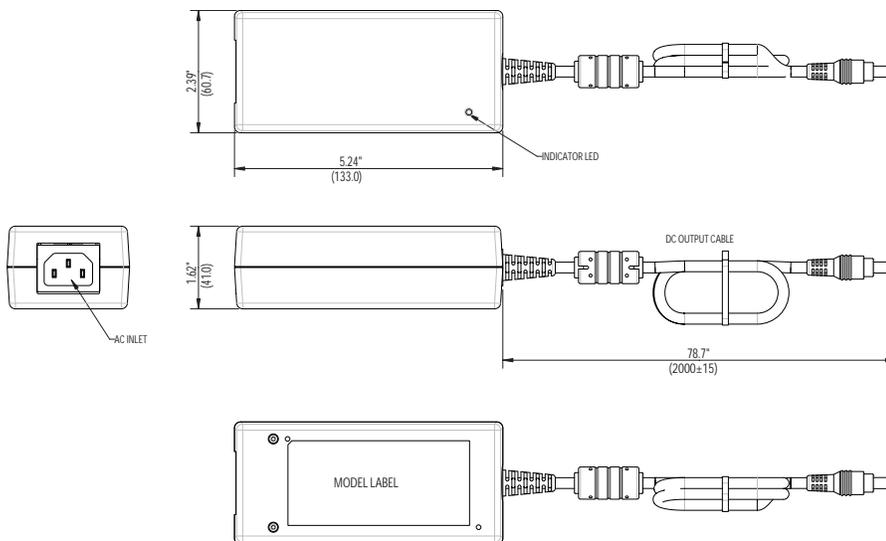


Ordering Information

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 10 μ F tantalum capacitor in parallel with a 0.1 μ 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 μ F (tantalum capacitor) in parallel with a 0.1 μ 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 ± 0.02 " (± 0.5 mm)
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

While every precaution has been taken to ensure accuracy and completeness in this literature, Astec Power assumes no responsibility, and disclaims all liability for damages resulting from use of this information or for any errors or omissions.

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