DPS50-M

60 Watts

Medical

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

RoHS 2002/95/EC

Special Features

- Medical safety approvals
- CE Mark EMC & LVD (except DPS52-M)
- Universal AC input
- Fully regulated output
- Overload and short circuit protection
- Internal remote sense to the output plug
- Constant voltage
- Level V efficiency (except DPS52-M)
- 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

Safety

UL	UL 60601-1
CSA	CSA-C22.2 no.601.1-M90
VDE	07501/EN60601-1 (IEC601)
CE	EMC & LVD (except DPS52-M)

Electrical Specifications

Input	
Input range	90 - 264 Vac (wide range) 127 - 300 Vdc
Frequency	47 - 440 Hz
Inrush current	<60 A @ 230 Vac, cold start @ 25 ˚C
Input current	<2.0 A rms @ 115 Vac; <1A @ 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 leakage current	275 µA max. @ 50/60 Hz, 264 Vac input
Output	
Maximum Power (Po)	60 W (DPS52, 30 W)
Hold-up time	10ms. typical at full load @ 115 Vac
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 2.5 mm 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 500 Hz, operational
MTBF demonstrated:	> 550,000 hours at full load and 25 °C ambient conditions

ASTEC

EMERSON Network Power

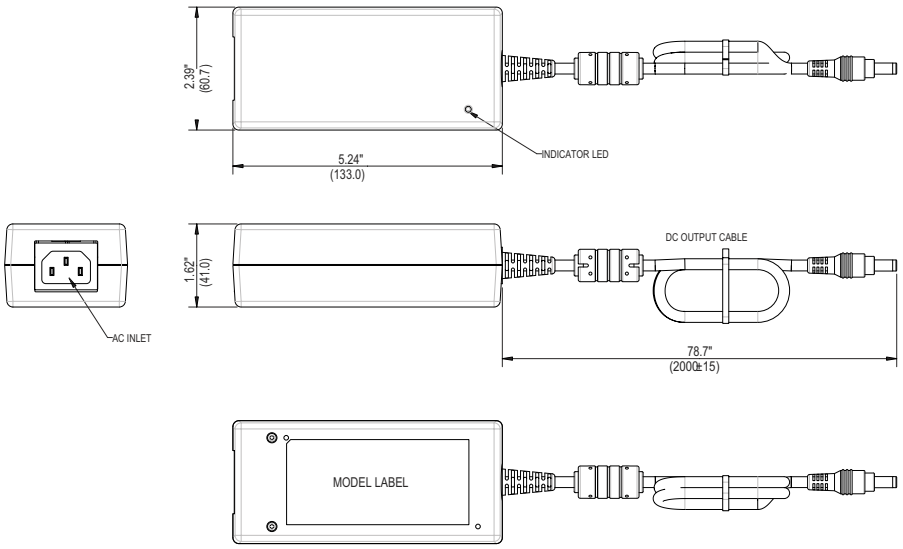
Ordering Information

Model Number	Maximum Power	Output Voltage	Maximum Load	Peak Load[1]	Regulation[2]	Ripple P/P (PARD)[3]
DPS52-M*	30 W	5 V	6 A	6.5 A	± 2%	50 mV
DPS53-M	60 W	12 V	5 A	5.4 A	± 2%	120 mV
DPS54-M	60 W	15 V	4A	4.3 A	± 2%	150 mV
DPS55-M	60 W	24 V	2.5 A	2.7 A	± 2%	240 mV
DPS58-M	60 W	48 V	1.25 A	1.35 A	± 2%	480 mV

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

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