POMERICA

DPS50-M

60 Watts

Medical





Data Sheet

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 (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</p>
- 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; <1 A @ 230 Vac				
Efficiency	88% typical				
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	10 ms 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 °C to +40 °C ambient20 °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 8 Hz to 500 Hz, operational				
MTBF demonstrated:	> 550,000 hours at full load and 25 °C ambient conditions				



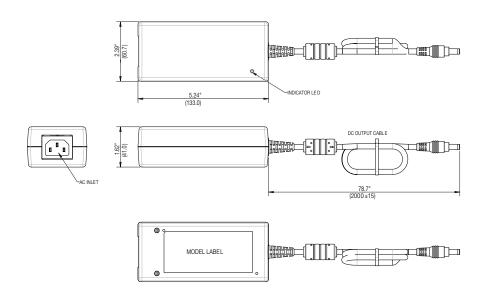
Ordering Information								
Model Number	Maximum Power	Output Voltage	Maximum Load	Peak Load ¹	Regulation ²	Ripple P/P (PARD) ³		
DPS52-M*	30 W	5 V	6 A	6.5 A	± 2%	50 mV		
DPS53-M	60 W	12 V	5 A	5.4 A	± 2%	120 mV		
DPS54-M	60 W	15 V	4 A	4.3 A	± 2%	150 mV		
DPS55-M	60 W	24 V	2.5 A	2.7 A	± 2%	240 mV		
DPS58-M	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 °C including initial tolerance, line voltage, load currents and output voltages adjusted to factory settings.

In the Lie By

- 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 \pm 0.02" (\pm 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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