

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
- 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 ambient. -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 8 Hz to 500 Hz, operational
MTBF demonstrated:	> 550,000 hours at full load and 25 °C ambient conditions

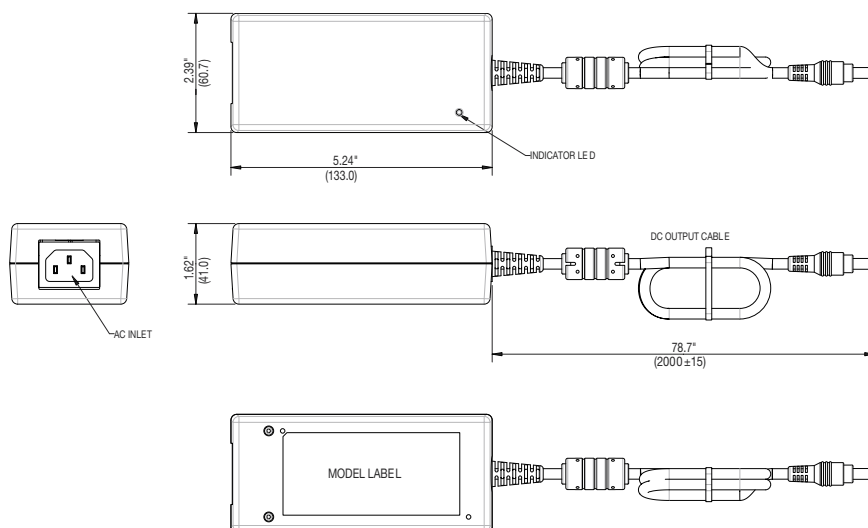
Ordering Information

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.
3. Peak-to-peak with 20 MHz bandwidth and 10 μ F (tantalum capacitor) in parallel with a 0.1 μ F 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

WORLDWIDE OFFICES

Americas

2900 South Diablo Way
Suite B100
Tempe, AZ 85282, USA
+1 888 412 7832

Europe (UK)

Ground Floor Offices, Barberry House
4 Harbour Buildings, Waterfront West
Brierley Hill, West Midlands
DY5 1LN, UK
+44 (0) 1384 842 211

Asia (HK)

14/F, Lu Plaza
2 Wing Yip Street
Kwun Tong, Kowloon
Hong Kong
+852 2176 3333

ARTESYNTM
An Advanced Energy Company

www.artesyn.com

Artesyn Embedded Technologies, Artesyn Embedded Power, Artesyn, and all Artesyn related logos are trademarks and service marks of Artesyn Embedded Technologies, Inc. All other names and logos referred to are trade names, trademarks, or registered trademarks of their respective owners. Specifications are subject to change without notice. © 2019 Artesyn Embedded Technologies, Inc. All rights reserved. For full legal terms and conditions, please visit www.artesyn.com/legal.

For more information: www.artesyn.com
For support: productsupport.ep@artesyn.com

DPS50-M-DS 05Dec2019

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Advanced Energy:](#)

[DPS52-M](#) [DPS53](#) [DPS53-M](#) [DPS54](#) [DPS54-M](#) [DPS55](#) [DPS55-M](#) [DPS58](#) [DPS58-M](#)