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# 60 Watts

## DPS50-M Series

### Medical

Total Power: 30 - 60 Watts  
Input Voltage: 127 - 300 VDC, 90 - 264 VAC  
# of Outputs: Single



#### Electrical Specs

##### Input

|                                  |                                                                |
|----------------------------------|----------------------------------------------------------------|
| Input range                      | 90 - 264 VAC (wide range),<br>127 - 300 VDC                    |
| Frequency                        | 47 - 440 Hz                                                    |
| Inrush current                   | <50A @ 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 &<br>EN55022 (CISPR 22) Class B |
| Safety ground<br>leakage current | 275µA max. @ 50/60 Hz, 264 VAC input                           |

##### Output

|                                |                                                                                                           |
|--------------------------------|-----------------------------------------------------------------------------------------------------------|
| Maximum Power (Po)             | 60W (DPS52-M, 30W)                                                                                        |
| Hold-up time                   | 10 ms. typical at full load @ 115VAC                                                                      |
| Overvoltage protection         | 20% - 45% above nominal output<br>maximum.<br>Latching type, recycle AC to reset.                         |
| Overload protection            | Output short circuit protection<br>auto recover. Overload protected<br>@ 120 - 150% above maximum rating. |
| Cable/connector<br>barrel type | DC cable with 2.5 mm center plug<br>DC plug center +v<br>DC plug outer -v                                 |

#### Special Features

- Medical safety approvals
- CE Mark EMC & LVD
- Universal AC input
- Fully regulated output
- Overload and short circuit protection
- Internal remote sense
- 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

#### Environmental

Operating temperature: 0°C to +40°C  
ambient. Derate each output as 2.5% per  
degree from 40° 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 95% 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

#### Safety

|     |                          |
|-----|--------------------------|
| UL  | UL60601-1                |
| CSA | CSA-C22.2 NO. 601.1-M90  |
| VDE | 07501/EN60601-1 (IEC601) |
| CE  | EMC & LVD                |



# AMERICAS

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# ASIA

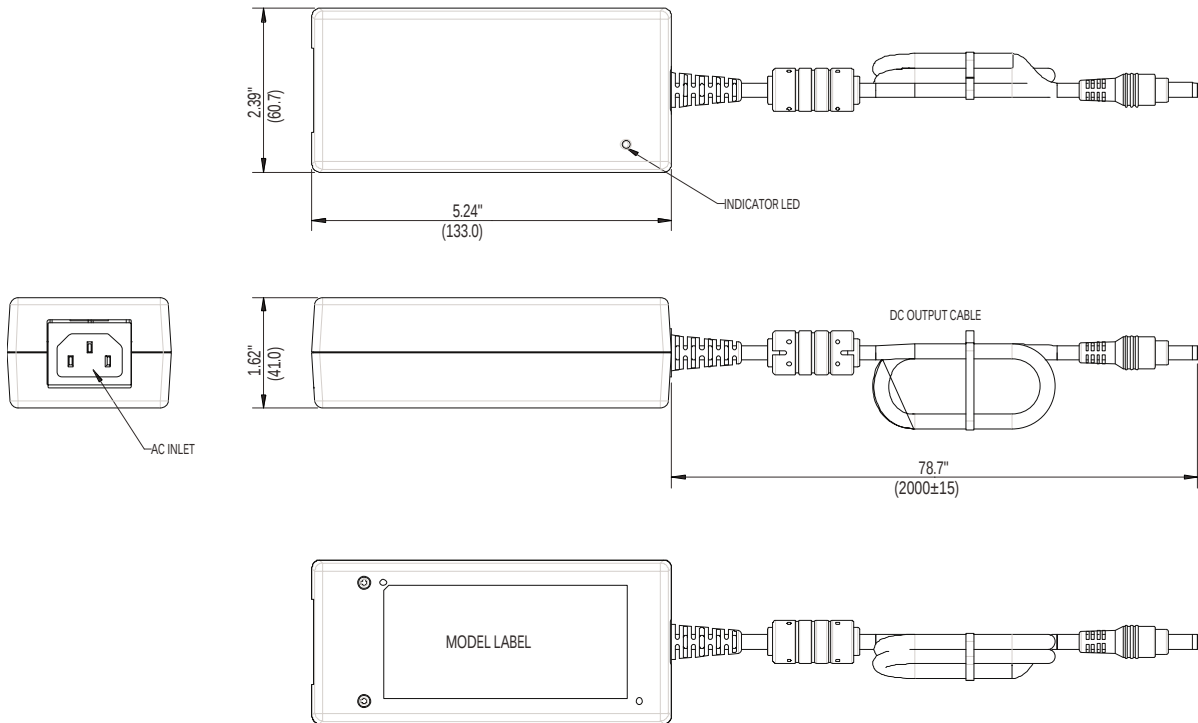
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Kwai Fong, New Territories  
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## Ordering Information

| Model Number | Maximum Power | Output Voltage | Maximum Load | Peak Load <sup>1</sup> | Regulation <sup>2</sup> | Ripple P/P (PARD) <sup>3</sup> |
|--------------|---------------|----------------|--------------|------------------------|-------------------------|--------------------------------|
| 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 20 MHz bandwidth and 10  $\mu$ F tantalum capacitor in parallel with a 0.1  $\mu$ F capacitor.



### NOTES:

- Specifications subject to change without notice.
- All dimensions in inches (mm), tolerance is  $\pm 0.02" \pm (0.5\text{mm})$
- Warranty: 1 year
- Weight: 1.06 lb./ .48 kg
- AC input power cord sold separately.
- Specifications are for convection rating at factory settings at 115VAC input, 25°C unless otherwise stated

