

## DP40

### 40 Watts

**Total Power:** 40 Watts  
**Input Voltage:** 90 - 264 VAC  
127 - 300 VDC  
**# of Outputs:** Single



## Special Features

- Medical and ITE safeties
- Universal AC input
- Fully regulated output
- Overload and short circuit protection
- Constant voltage
- High efficiency
- High MTBF
- IEC320 AC input receptacle  
3 pin (type C14)  
2 pin (type C8)
- Built in EMI filter  
(CISPR 22 Class B)
- LED power good indicator
- Input power < 49 watts
- Complies with EN61000-3-2
- Meets Energy Star 2.0
- WEEE & CeC IV compliant
- CE Mark EMC & LVD
- Less than 300 mW No-Load power consumption

## Safety

- **UL** 60950-1, 60601-1
- **cUL** 60950-1, 60601-1
- **TUV** 60950-1, 60601-1
- **CE** EMC & LVD
- **CB** Certificate and report
- **CCC** China Approval

## Electrical Specifications

| Input                          |  |
|--------------------------------|--|
| Input range:                   | 90 - 264 Vac (wide range)<br>127 - 300 Vdc   |
| Frequency:                     | 47 - 63 Hz   |
| Inrush current:                | < 50A @ 230 Vac, cold start @ 25 °C  |
| Input current:                 | < 0.5 A rms @ 115 Vac; < 0.25 A @ 230 Vac  |
| Efficiency:                    | 84% @ full load typical, @115 Vac  |
| EMI/RFI:                       | FCC Part 15, Subpart B Class B & EN55022 (CISPR 22) Class B  |
| Safety ground leakage current: | 300 µA @ 50/60 Hz, 264 Vac input for 3 pin model<br>100 µA @ 50/60 Hz, 264 Vac input for 2 pin model |
| Output                         |  |
| Maximum Power (Po):            | 40 W   |
| Hold-up time:                  | 10 ms. typical at full load @ 115 Vac  |
| Overvoltage protection:        | 20% - 45% above nominal output maximum<br>Latching type, recycle AC to reset.                        |
| Overload protection:           | Output short circuit protection auto recover<br>Overload protected @ 110 - 160% above peak rating    |
| Cable/connector:               | 1.2 m DC cable with 2.5mm I.D, 5.5 mm O.D center plug<br>DC plug center +v<br>DC plug outer -v       |

## Environmental Specifications

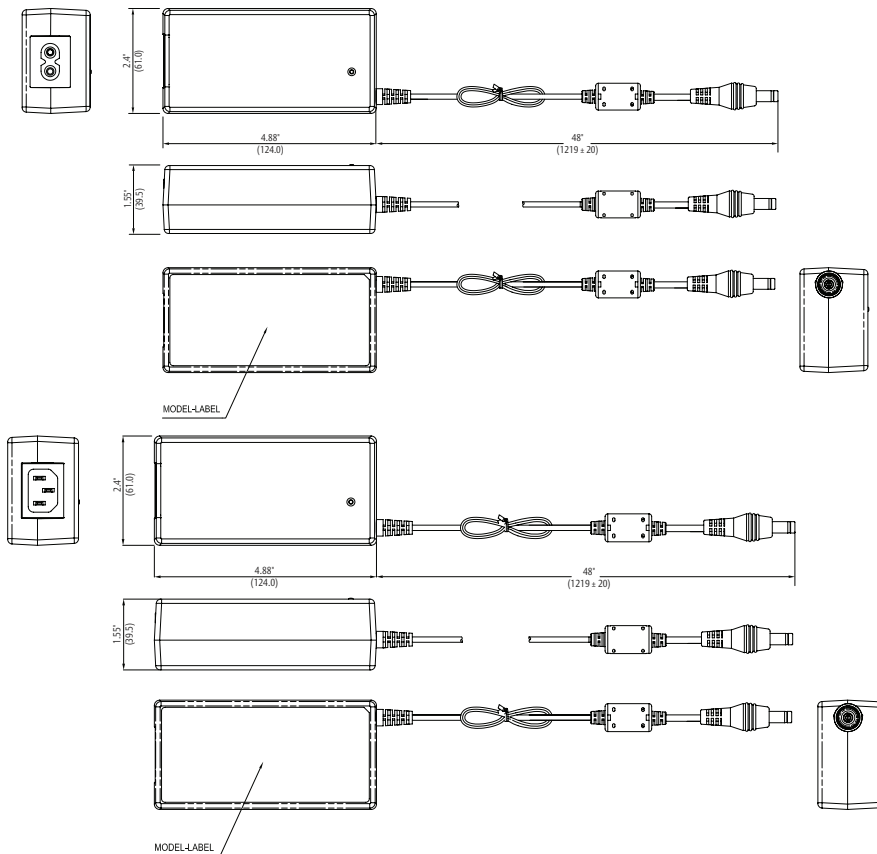
|                                 |   |
|---------------------------------|---|
| Operating temperature:          | 0 ° to +40 °C ambient. Derate each output as 2.5% per degree from 40 °C to 60 °C. -20 °C start up |
| Storage temperature:            | -40 °C to +85 °C  |
| Electromagnetic susceptibility: | 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   |

## Ordering Information

| Model Number | Output Voltage | Maximum Load | Peak Load <sup>1</sup> | Regulation <sup>2</sup> | Ripple P/P (PARD) <sup>3</sup> |
|--------------|----------------|--------------|------------------------|-------------------------|--------------------------------|
| DP4009N2M    | 9 V            | 4.44 A       | 5.4 A                  | ± 5%                    | 90 mV                          |
| DP4009N3M    | 9 V            | 4.44 A       | 5.4 A                  | ± 5%                    | 90 mV                          |
| DP4012N2M    | 12 V           | 3.33 A       | 4.4 A                  | ± 5%                    | 120 mV                         |
| DP4012N3M    | 12 V           | 3.33 A       | 4.4 A                  | ± 5%                    | 120 mV                         |
| DP4015N2M    | 15 V           | 2.67 A       | 3.5 A                  | ± 5%                    | 150 mV                         |
| DP4015N3M    | 15 V           | 2.67 A       | 3.5 A                  | ± 5%                    | 150 mV                         |
| DP4018N2M    | 18 V           | 2.22 A       | 3.0 A                  | ± 5%                    | 150 mV                         |
| DP4018N3M    | 18 V           | 2.22 A       | 3.0 A                  | ± 5%                    | 150 mV                         |
| DP4024N2M    | 24 V           | 1.67 A       | 2.3 A                  | ± 5%                    | 240 mV                         |
| DP4024N3M    | 24 V           | 1.67 A       | 2.3 A                  | ± 5%                    | 240 mV                         |
| DP4048N2M    | 48 V           | 0.84 A       | 1.2 A                  | ± 5%                    | 480 mV                         |
| DP4048N3M    | 48 V           | 0.84 A       | 1.2 A                  | ± 5%                    | 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 µF (tantalum capacitor) in parallel with a 0.1 µF 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: 2 year
4. Weight: 0.55 lb./ .25 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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