### **DP40**

40 Watts

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



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### **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) Class I
  2 pin (type C8) Class II
- 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, Efficiency Level V
- 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)

127 - 300 Vdc Frequency: 47 - 63 Hz

Inrush current: < 50A @ 230 Vac, cold start @ 25 °C Input current: < 50.5 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 300  $\mu$ A @ 50/60 Hz, 264 Vac input for 3 pin model leakage current: 100  $\mu$ A @ 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

Latching type, recycle AC to reset.

Overload protection: Output short circuit protection auto recover

Overload protected @ 110 - 160% above peak rating

Cable/connector: 1.2 m DC cable with 2.5 mm I.D, 5.5 mm O.D 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 Desig

Designed to meet EN61000-4, -2, -3, -4, -5, -6, -8, -11, Level 3

susceptibility:

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

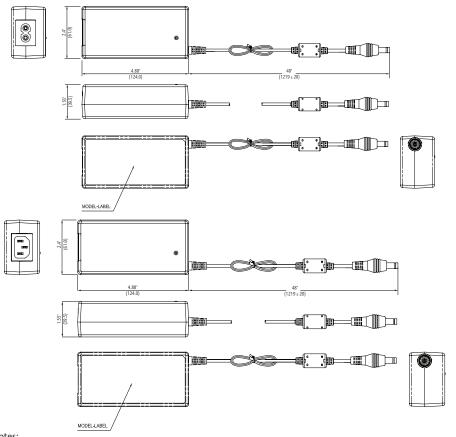


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#### Ordering Information **Ripple** Model Number Output Voltage Maximum Load Peak Load<sup>1</sup> Regulation<sup>2</sup> P/P (PARD)3 DP4009N2M 9 V 4.44 A 5.4 A ± 8% 90 mV ± 8% DP4009N3M 9 V 4.44 A 5.4 A 90 mV DP4012N2M 12 V 3.33 A 4.4 A ± 5% 120 mV ± 5% 120 mV DP4012N3M 12 V 3.33 A 4.4 A 3.5 A DP4015N2M 15 V 2.67 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 2.2 A ± 5% 240 mV DP4024N3M 24 V 2.2 A ± 5% 240 mV 1.67 A 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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