

POWER

DP40 40 Watts

Data Sheet

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) 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 Efficiency Level V
- CE Mark EMC, LVD & ErP 2011
- 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 & ErP 2011
- 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: | < 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 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 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

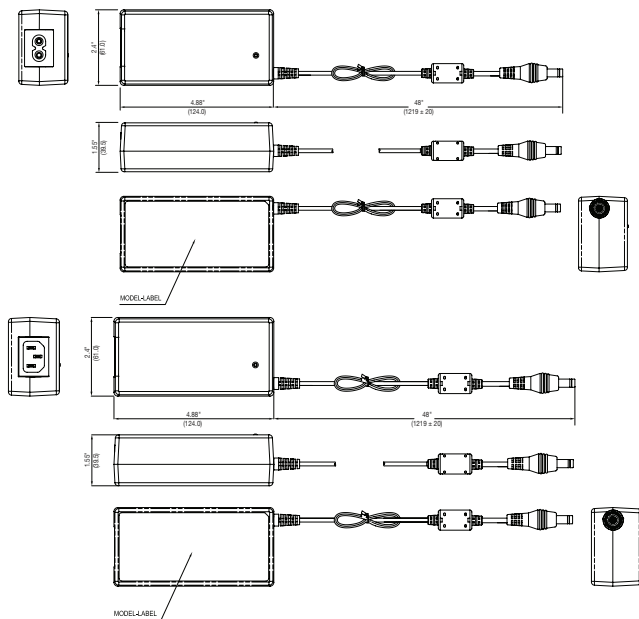
| | |
|---------------------------------|---|
| Operating temperature: | 0 ° to +40 °C ambient. Derate each output as 2.5% per degree from 40 °C to 60 °C. -20 °C start up |
| Storage temperature: | -40 °C to +85 °C |
| Electromagnetic susceptibility: | Designed to meet EN61000-4, -2, -3, -4, -5, -6, -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 ¹ | Regulation ² | Ripple P/P (PARD) ³ |
|--------------|----------------|--------------|------------------------|-------------------------|--------------------------------|
| DP4009N2M | 9 V | 4.44 A | 5.4 A | ± 8% | 90 mV |
| DP4009N3M | 9 V | 4.44 A | 5.4 A | ± 8% | 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 | 2.2 A | ± 5% | 240 mV |
| DP4024N3M | 24 V | 1.67 A | 2.2 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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