POWER

DP40

40 Watts

Data Sheet

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



RoHS 6/6 COMPLIANT

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	< 50 A @ 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 8 Hz to 500 Hz, operational
MTBF demonstrated	> 550,000 hours at full load and 25 °C ambient conditions

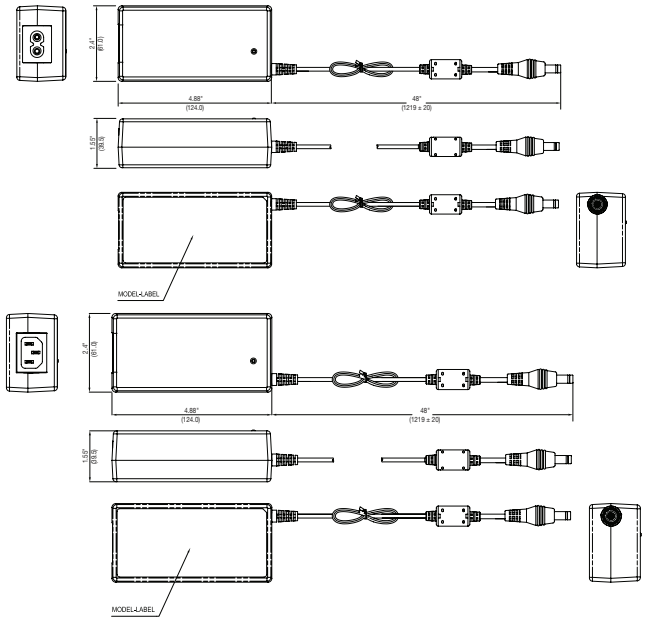
ARTESYN™
EMBEDDED TECHNOLOGIES

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 ºC 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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