

ARTESYN DP40

40 Watts



Advanced Energy's Artesyn DP40-M series of freestanding external 40 watt AC-DC power adapters carries both medical and safety approvals. These adapters provide a very flexible, pre-approved power solution for a wide variety of portable and desktop applications, including medical, instrumentation, telecommunications, computer peripheral and test and measurement systems. The adapters are available in both Class I and Class II configurations with a 2-pin or 3-pin AC input connector.

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	< 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

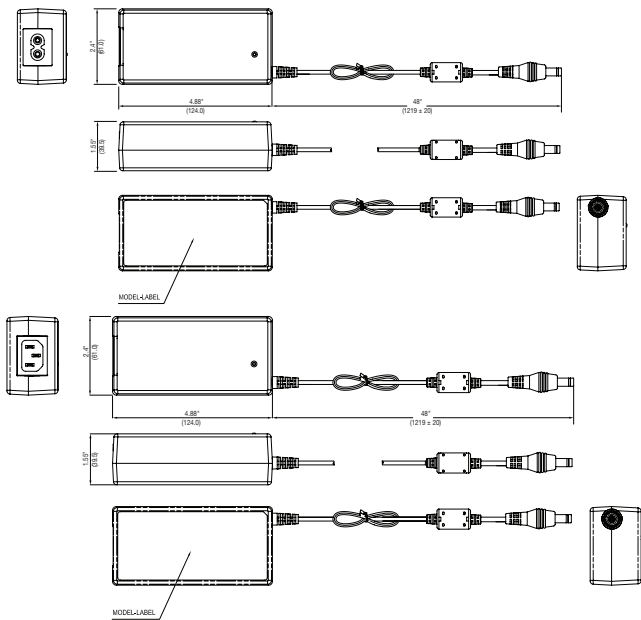
Operating temperature	0 ° to +40 °C ambient. Derate each output as 2.5% per degree from 40 °C to 60 °C. -20 °C start up
Storage temperature	-40 °C to +85 °C
Electromagnetic susceptibility	Designed to meet EN61000-4, -2, -3, -4, -5, -6, -8, -11, Level 3
Humidity	Operating; non-condensing 10% to 90% RH
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

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./0.25 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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ABOUT ADVANCED ENERGY

Advanced Energy (AE) has devoted more than three decades to perfecting power for its global customers. AE designs and manufactures highly engineered, precision power conversion, measurement and control solutions for mission-critical applications and processes.

Our products enable customer innovation in complex applications for a wide range of industries including semiconductor equipment, industrial, manufacturing, telecommunications, data center computing, and medical. With deep applications know-how and responsive service and support across the globe, we build collaborative partnerships to meet rapid technological developments, propel growth for our customers, and innovate the future of power.

PRECISION | POWER | PERFORMANCE

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