

ARTESYN DA10-M SERIES

10 Watts



Advanced Energy's Artesyn new standard DA10-M series of plug-in wall-mount AC-DC power adapters features full (non-patient critical) medical and ITE safety approvals. It meets Department of Energy Level VI and European Code of Conduct v5 Tier 2 Directive efficiency standards.

DATA SHEET

Total Power:

10 Watts

Input Voltage:

90 - 264 Vac

of Outputs:

Single, 5 Volts

SPECIAL FEATURES

- Medical and ITE safeties
- Switching wallmount power supply
- Available in interchangeable and fixed AC plug configurations
- CE Mark EMC, LVD & ErP 2011
- Universal AC input
- Fully regulated output
- Overvoltage, overcurrent, short circuit and overtemperature protection
- EU CoC v5 Tier 2 compliant
- Energy Star and CeC compliant
- Efficiency level VI
- RoHS compliant
- Constant current
- High MTBF
- Built in EMI filter (CISPR 32 Class B)

SAFETY

- | | |
|--------------|--|
| ■ UL | 60950, 60601-1 |
| ■ cUL | 60950, 60601-1 |
| ■ TUV | 60950-1, 60601-1 |
| ■ RCM AS/NZS | 60950-1 |
| ■ CB | Certificate and report |
| ■ CE | EMC, LVD, RoHS & ErP 2011 for MP, EU & UK versions |
| ■ PSE Denan | 60950 |
| ■ CCC | <2000M, No Tropical |
| ■ Others | NRCan, DoE, CEC, AUGEMS |

** DA10-M tested according to the medical standard IEC 60601-1-2 4th Edition.



ELECTRICAL SPECIFICATIONS

Input	
Input range	90 - 264 Vac (wide range)
Frequency	47 - 63 Hz
Input current	0.25 A rms @ 120 Vac; 0.15 A @ 240 Vac
EMI/RFI	FCC Part 15, Subpart B Class B & EN55022 (CISPR 32) Class B
Safety ground leakage current	100 μ A @ 50/60 Hz, 264 Vac input
Output	
Voltage (Vo)	5.0 V
Voltage regulation	$\pm$ 5%
Maximum Power (Po)	10 W
Hold-up time	10 ms. typical at full load @ 230 Vac
Overvoltage protection	Non-latching type
Overload protection	Output shortcircuit protection auto recover Overload protected @ 150% above maximum rating
Overtemperature protection	Recycle AC to reset
Output cable/connectorbarrel polarity	DC cable with 2.5 mm x 5.5mm barrel plug, 2.1 mm x 5.5 mm available on DC multi-plug version. For others please contact factory. DC plug center +v DC plug outer -v

ENVIRONMENTAL SPECIFICATIONS

Operating temperature	-10 ° to +40 °C ambient
Storage temperature	-40 °C to +85 °C
Electromagnetic susceptibility	Designed to meet EN55024
Humidity	Operating; non-condensing 5% to 95% RH
Vibration	Frequency/PSD: 5 - 350 Hz 0.0001 g²/Hz 350 - 500 Hz - 6dB/Oct. 500 Hz 0.00005 g²/Hz Acceleration: 0.21 gRMS Duration: 20 min per second

AC PLUG CONFIGURATION FOR FIXED PLUG

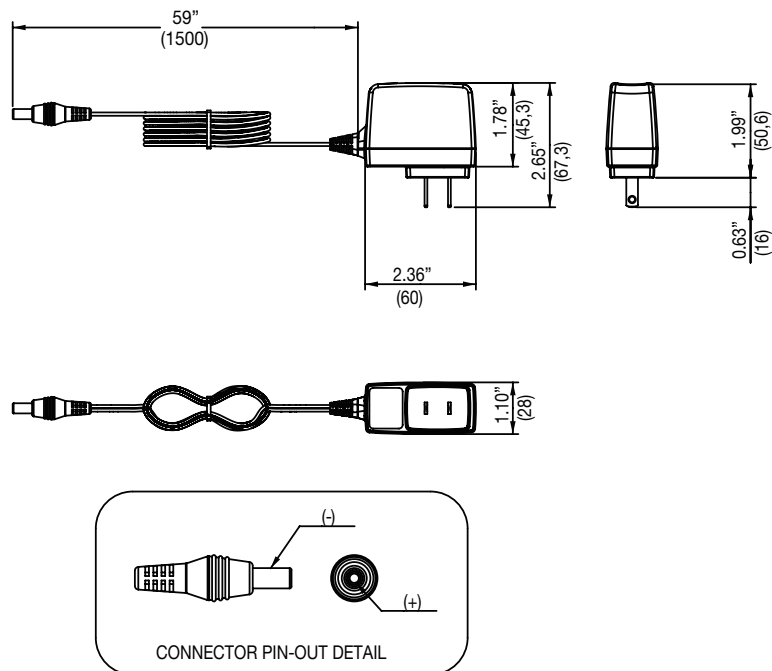
U.S. 2-prong	US
Europe 2-prong	EU
United Kingdom 3-prong	UK
Australia 2-prong	AU

AC PLUG CONFIGURATION FOR INTERCHANGEABLE PLUG

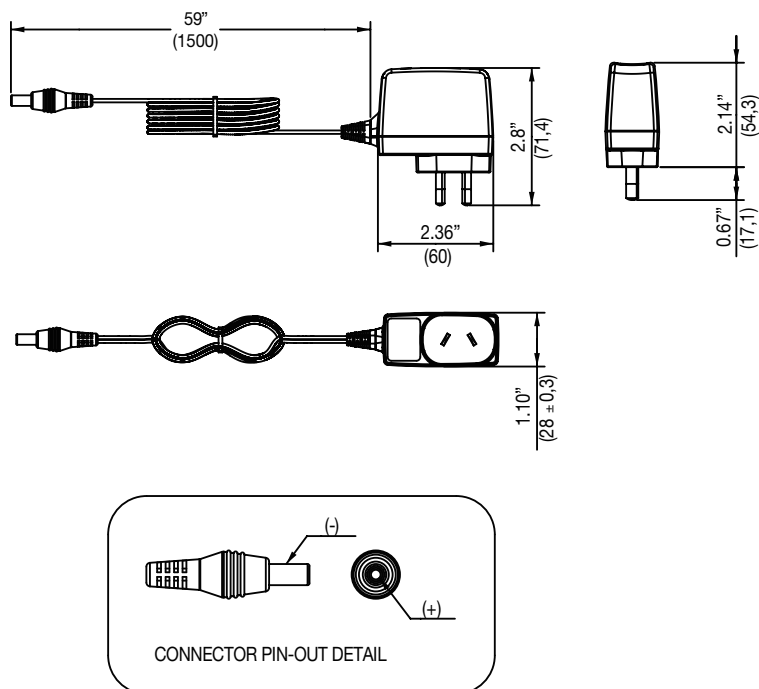
U.S. 2-prong	DA-US
Europe 2-prong	DA-EU
United Kingdom 3-prong	DA-UK
Australia 2-prong	DA-AU
C8 - 2 receptacle	DA-C8
Japan 2-prong	DA-JP
China 2-prong	DA-CH
Korea 2-prong	DA-KR

MECHANICAL DRAWINGS

DA10-050US-M

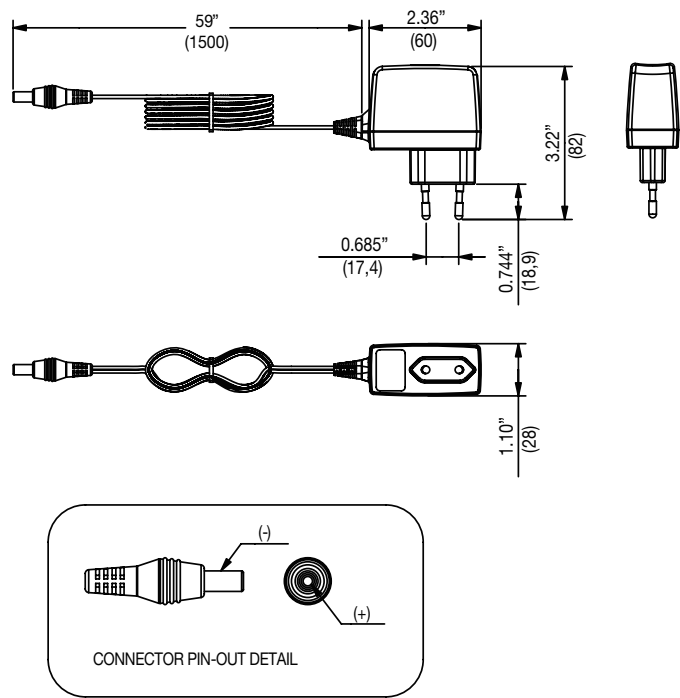


DA10-050AU-M

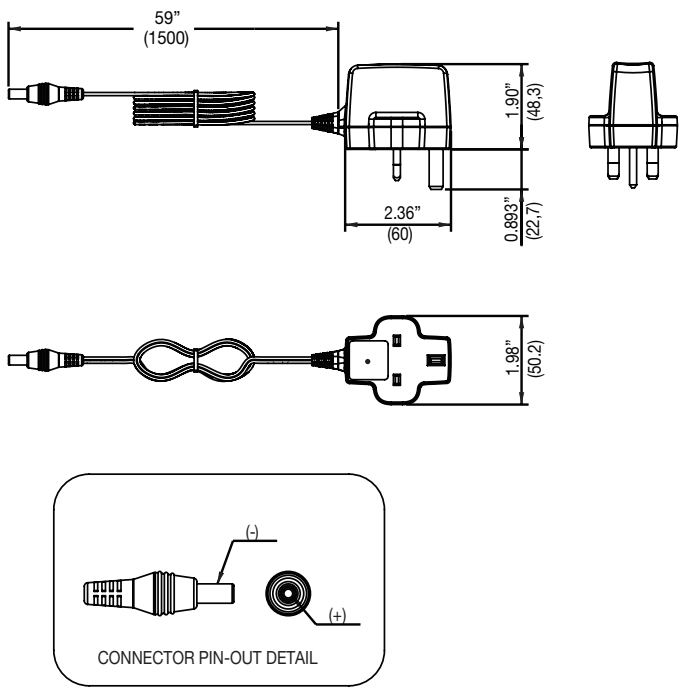


MECHANICAL DRAWINGS

DA10-050EU-M

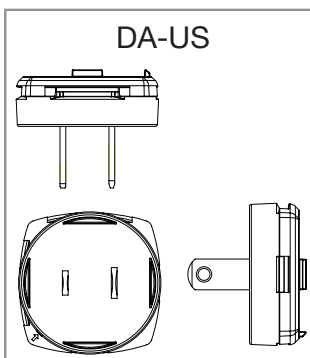
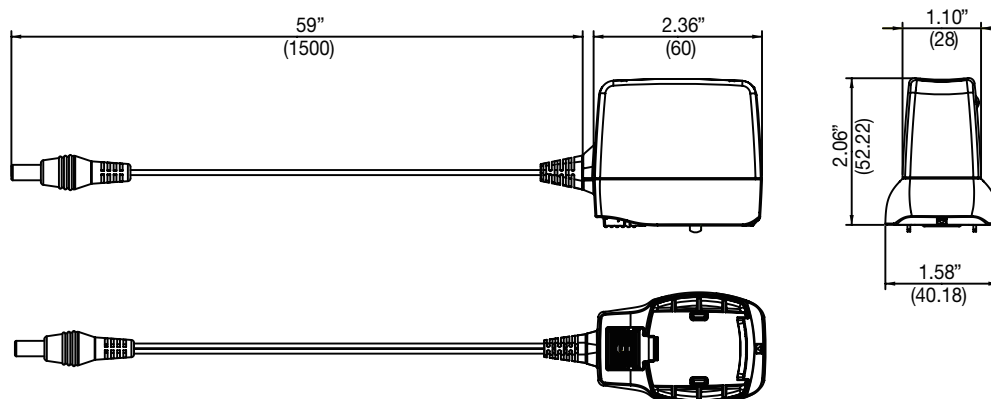


DA10-050UK-M

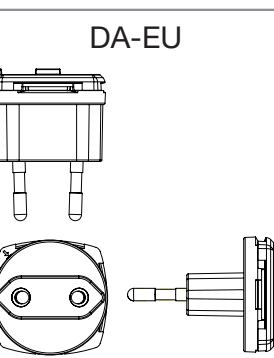
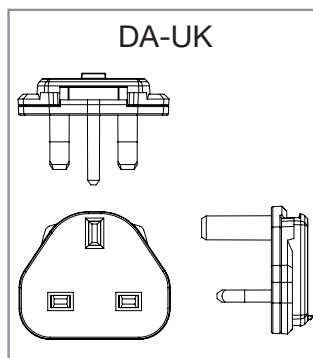


MECHANICAL DRAWINGS

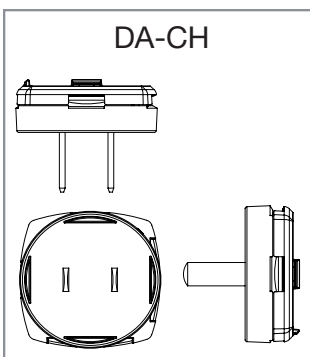
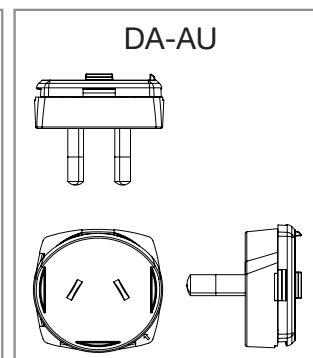
DA10-050MP-M and Plugs



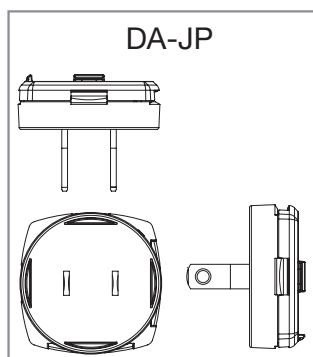
*Can be inserted straight or 90°



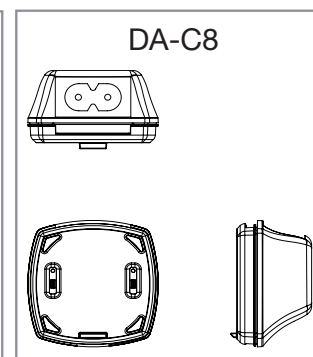
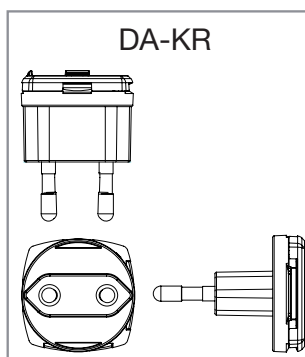
*Can be inserted straight or 90°



*Can be inserted straight or 90°



*Can be inserted straight or 90°

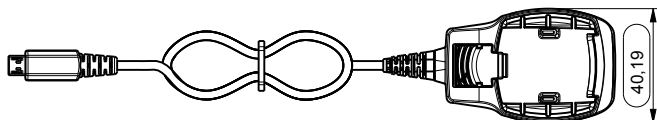
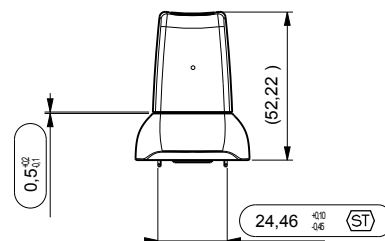
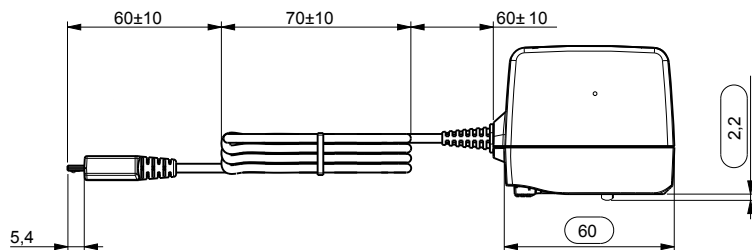


Notes:

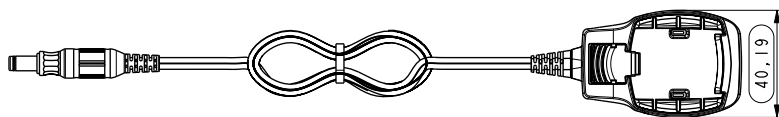
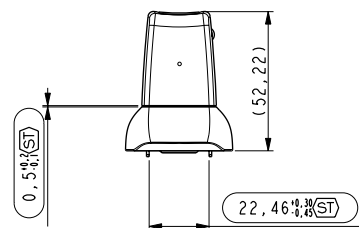
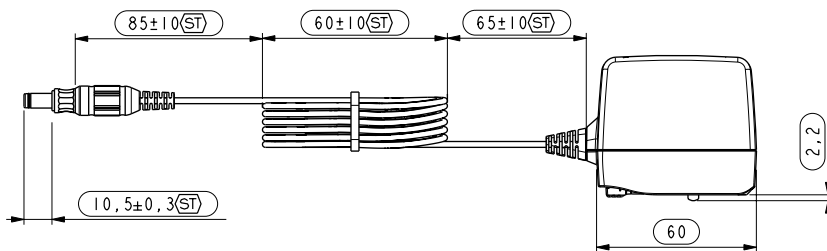
1. Specifications subject to change without notice.
2. All dimensions in inches (mm), tolerance is $\pm .02$ ".
3. Weight: 0.25 lb/0.114 kg
4. Warranty: 2 years

MECHANICAL DRAWINGS

DA10-050MP-M402



DA10-050MP-M2.1



Notes:

1. Specifications subject to change without notice.
2. All dimensions in mm
3. Weight: 0.25 lb/0.114 kg
4. Warranty: 2 years

ORDERING INFORMATION - DA10 ADAPTER

Model Number	Maximum Power	Output Voltage	Minimum Load	Maximum Load	Regulation ²	Ripple P/P (PARD) ³
DA10-050US-M	10 W	5.0 V	0 A	2.0 A	± 5%	< 100 mV
DA10-050EU-M	10 W	5.0 V	0 A	2.0 A	± 5%	< 100 mV
DA10-050UK-M	10 W	5.0 V	0 A	2.0 A	± 5%	< 100 mV
DA10-050AU-M	10 W	5.0 V	0 A	2.0 A	± 5%	< 100 mV
DA10-050MP-M*	10 W	5.0 V	0 A	2.0 A	± 5%	< 100 mV
DA10-050MP-M2.1**	10 W	5.0 V	0 A	2.0 A	± 5%	< 100 mV
DA10-050MP-M402***	10 W	5.0 V	0 A	2.0 A	± 5%	< 100 mV

* Interchangeable version - AC plugs must be purchased separately to be used with DA10-050MP-M.

** 2.1 mm x 5.5 mm barrel plug

*** Micro USB connector

ORDERING INFORMATION - DA10 INTERCHANGEABLE PLUG

Model Number	
DA-US	DA-C8
DA-EU	DA-JP
DA-UK	DA-CH
DA-AU	DA-KR
DA-All (Includes DA-US, DA-EU, DA-UK, and DA-AU)	

1. Peak current lasting < 30 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 in parallel with a 0.1 µF capacitor at rated line voltage and load ranges.



For international contact information,
visit advancedenergy.com.

powersales@aei.com (Sales Support)
productsupport.ep@aei.com (Technical Support)
+1 888 412 7832

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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