

AC/DC Switching Adapter - Single Output

Medical AC/DC Power Adapter
AD-A7 V2 Series 130/140Watts
DOE Level VI & EU ErP Tier 2 Efficiency

FEATURES

- Medical Approvals
- 3-prong IEC 320-C14, Class I
- Medical safety approved (2x MOPP between primary to secondary)
Suitable for BF application with appropriate system consideration.
- Altitude during operation: Medical up to 5000m.
- $\leq 0.15\text{W}$ No Load Input Power
- Touch current less than 100uA
- Meet IEC60601-1-2 Ed4:2014
- 3 year warranty



ELECTRICAL SPECIFICATIONS

- Input range : 90 - 264VAC
- Frequency : 47 - 63Hz
- Power Factor : > 0.95 @115VAC; > 0.90 @230VAC @full load
- Inrush current : $< 50\text{A}$ peak @115VAC; $< 100\text{A}$ peak @230VAC cold start @25°C
- Input current (rms) : 2.5A @115VAC; 1.3A @230VAC max.
- Efficiency : $> 89\%$ (Average) 25 %, 50 %, 75 % and 100 % of full load @ 115/230VAC
- Touch current $< 100\text{uA}$ @264VAC
- Maximum output power (Po) : 140 Watts convection cooling
- Hold-up time : $> 20\text{ms}$ typical @full load, 115VAC
- Short circuit protection : Auto-recovery
- Over load protection : 110% to 150% maximum power, Auto-recovery
- Over voltage protection : Shutdown and latch off, AC recycle

RoHS Compliant

Dimension : L170 × W64.8 × H38.5mm (6.69"×2.55"×1.52")

Weight : 0.61 kgs. (1.34 lbs.)

SAFETY STANDARDS

UL/cUL 60601-1 3.1st EditionTUV EN60601-1 3.1st EditionCB IEC60601-1 3.1st Edition

EMC STANDARDS

EN60601-1-2 Ed4:2015

IEC60601-1-2 Ed4:2014

EN 55011 Class B

FCC Part 18 Class B

CE

ENVIRONMENTAL

- Operating temperature : -20 to +60°C (Refer to "Derating Curve")
- Cooling: Convection-cooling
- Storage temperature: -20°C to +85°C
- Humidity: Non-condensing 0% to 95%
- MTBF : $> 120,000$ hours @full load and 25°C ambient temperature based on MIL-HDBK-217F

DC OUTPUT & FEATURES

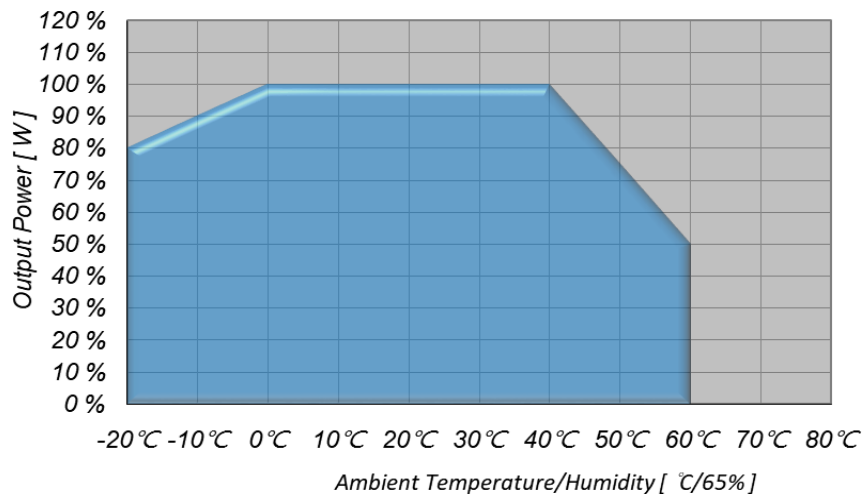
Model No.	Output Rating		Po	Output Regulation	Ripple & Noise (Vp-p)	DOE Efficiency	EU ErP
MTE130-12SX-F-W6	+12V	10.84A	130W	±5%	120mV	Level VI	Tier 2
MTE130-15SX-F-W6	+15V	8.67A	130W	±5%	150mV	Level VI	Tier 2
MTE140-19SX-F-W6	+19V	7.37A	140W	±5%	190mV	Level VI	Tier 2
MTE140-24SX-F-W6	+24V	5.84A	140W	±3%	240mV	Level VI	Tier 2
MTE140-28SX-F-W6	+28V	5.00A	140W	±3%	280mV	Level VI	Tier 2
MTE140-36SX-F-W6	+36V	3.89A	140W	±3%	280mV	Level VI	Tier 2
MTE140-48SX-F-W6	+48V	2.92A	140W	±3%	280mV	Level VI	Tier 2
MTE140-56SX-F-W6	+54V	2.60A	140W	±3%	280mV	Level VI	Tier 2

Note:

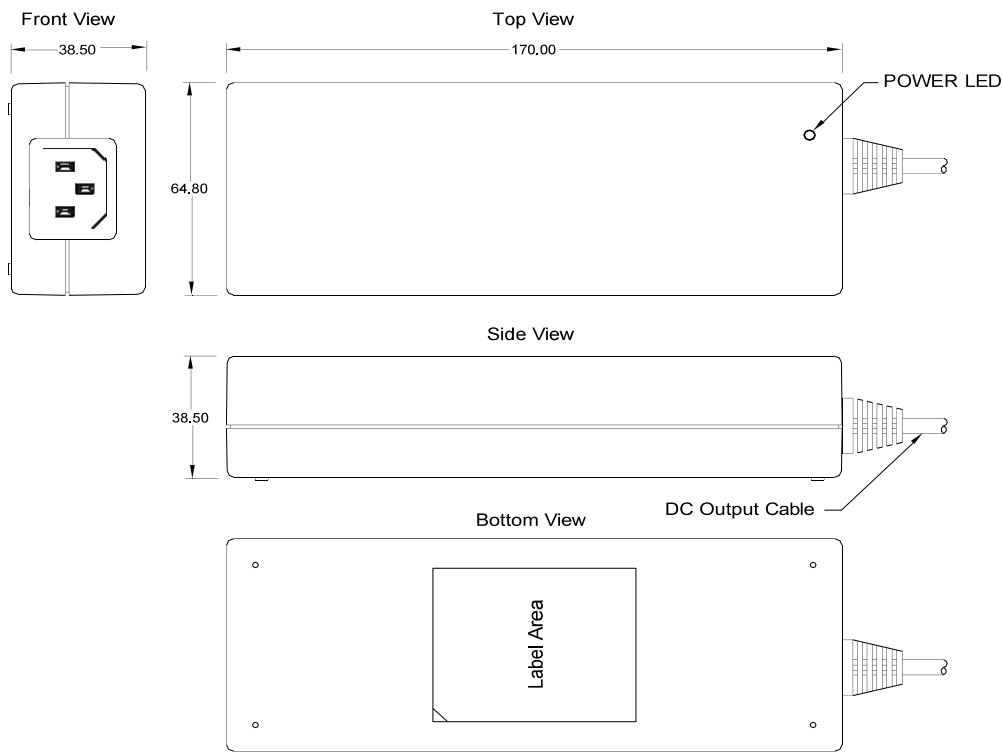
1. Ripple and noise are measured at oscilloscope 20MHz bandwidth by a 10uF electrolytic capacitor and a 0.1uF ceramic capacitor in parallel at output connector.

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DERATING CURVE



MECHANICAL SPECIFICATION



Note:

1. AC Inlet : IEC 320-C14
2. Plastic Case Color : Black
3. Tolerance : $\pm 0.5\text{mm}$
4. Unit : mm

STANDARD OUTPUT CABLE

1. AWM 1571 # 14 AWG / 1C + SHIELDING, UL 80°C 30V VW-1, 1050 mm.
2. AWM 1185 # 16 AWG / 1C + SHIELDING, UL 80°C 300V VW-1, 1050 mm.
3. Depends on customers requirements.