

**AC/DC Switching Adapter - Single Output**

**Medical AC/DC power adapter  
160/165Watts Series**

**FEATURES**

- Medical 60601-1 3<sup>rd</sup> Edition approved
- Output voltage range from +12V to +48V
- Fully meet CEC, ERP, EISA Efficiency level V requirements
- No load Power consumption < 500mW
- 2 year warranty

**ELECTRICAL SPECIFICATIONS**

- Input range : 90 - 264VAC
- Frequency : 47 - 63Hz
- Power Factor : > 0.95 @115VAC; > 0.90 @230VAC @full load
- Inrush current : < 65A peak @115VAC; < 130A peak @230VAC cold start @25°C
- Input current (rms) : 2.5A @90VAC; 1.0A @264VAC max.
- Efficiency : > 87% @average load, 115/230VAC
- Maximum output power (Po) : 165Watts
- Hold-up time : > 10ms typical @full load, 115VAC
- Short Circuit Protection: Auto-recovery
- Over Load Protection: Auto-recovery
- Over Voltage Protection: Shutdown and latch off, AC recycle

**ENVIRONMENTAL**

- Operating temperature : 0 to +60°C (Derate linearly 2.5% per °C from 41 to 60°C)
- Storage temperature : -10°C to +80°C
- Humidity: 0% ~ 90%.
- MTBF : > 100,000 hours at full load and 25°C ambient temperature



**RoHS Compliant**

Dimension : L170 × W85 × H44 mm ( 6.69" × 3.35" × 1.73")  
Weight : 0.79 kgs ( 1.73 lbs. )

**SAFETY STANDARDS**

UL60601-1 3<sup>rd</sup> Edition  
CSA-C22.2 No.60601-1 3<sup>rd</sup> Edition  
EN60601-1 3<sup>rd</sup> Edition  
IEC EN60601-1 3<sup>rd</sup> Edition

**EMC STANDARDS**

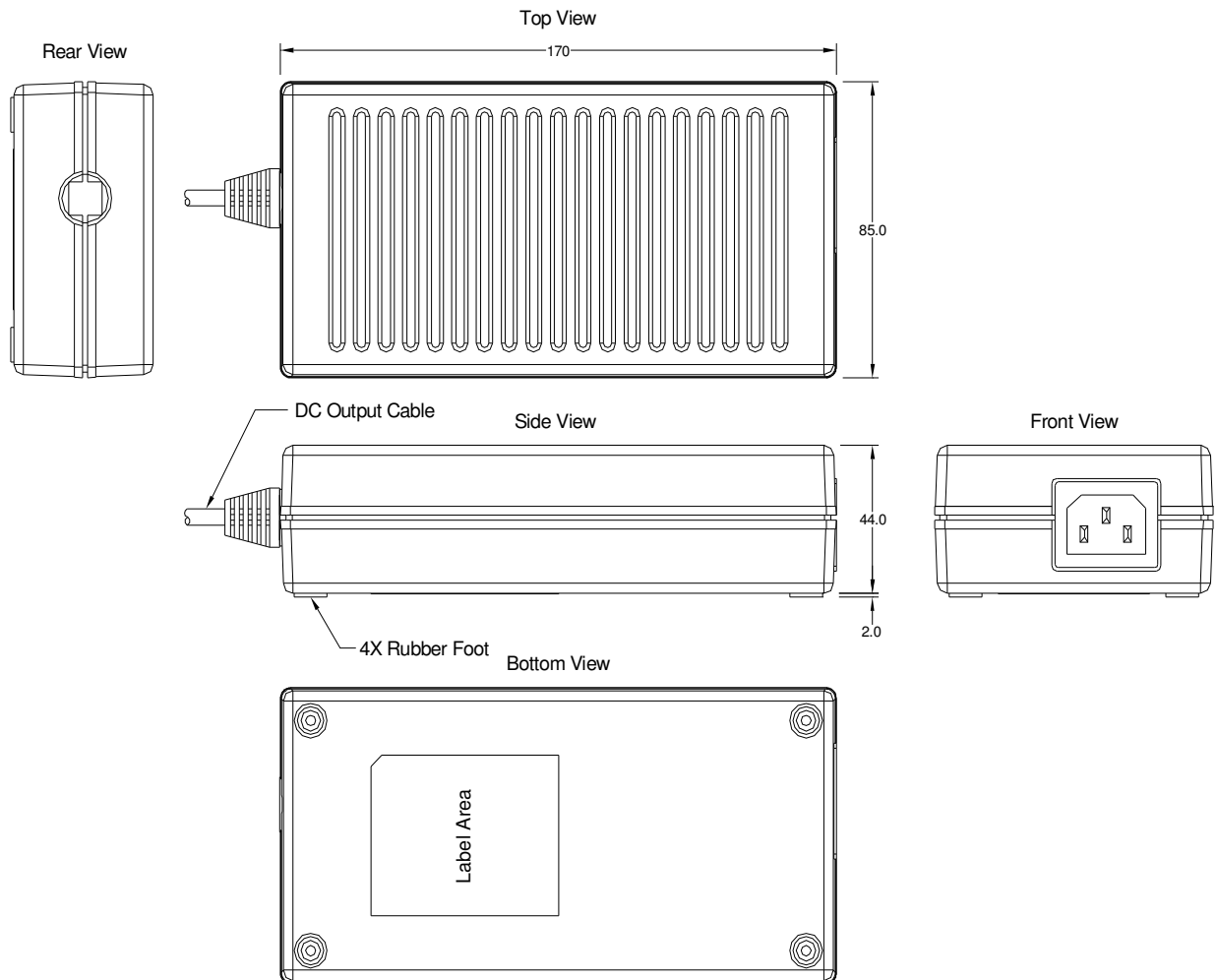
EN60601-1-2  
FCC Part 18 Class B  
EN55011 Class B  
CE

**DC OUTPUT & FEATURES**

Model	Output Rating		Po	O/P Regulation	Ripple & Noise(Vp-p)	Efficiency Level
PW-M160A-1Y120H	12V	13.33A	160W	±5%	120mV	V
PW-M160A-1Y150H	15V	10.67A	160W	±5%	150mV	V
PW-M160A-1Y190H	19V	8.42A	160W	±5%	190mV	V
PW-M165A-1Y240H	24V	6.88A	165W	±3%	240mV	V
PW-M165A-1Y280H	28V	5.89A	165W	±3%	280mV	V
PW-M165A-1Y360H	36V	4.58A	165W	±3%	360mV	V
PW-M165A-1Y480H	48V	3.44A	165W	±3%	480mV	V

**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.

**MECHANICAL SPECIFICATION**



- Note:
- 1. AC Inlet : IEC320-C14
  - 2. Plastic Case Color : Black
  - 3. Tolerance :  $\pm 0.5\text{mm}$
  - 4. Unit : mm

**STANDARD OUTPUT CABLE**

- 1. AWM 2464 # 16 AWG / 3C + SHIELDING, UL 80°C 300V VW-1, 1050 mm.
- 2. Depends on customers requirements.