

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

**AD-A8 100Watts ES Series**  
**DOE level VI and EU tier 2 Efficiency Compliant**

**FEATURES**

- 3-prong IEC320-C14 AC inlet, Class I
- Output voltage range from +12V to +52V
- Meet DOE level VI and EU tier 2 Efficiency requirements
- No load Power consumption < 150mW
- 3 year warranty

**ELECTRICAL SPECIFICATIONS**

- Input range : 90 - 264VAC
- Frequency : 47 - 63Hz
- Power Factor : > 0.95 @115VAC; > 0.90 @230VAC @full load
- Inrush current : <75A peak@115VAC; <150A peak@230VAC cold start @25°C
- Input current (rms) : 2.5A @90VAC; 1.25A @264VAC max.
- Efficiency : > 89% @average load, 115/230VAC
- Maximum output power (Po) : 100Watts
- Hold-up time : > 16ms typical @full load, 115VAC
- Short Circuit Protection: Auto-recovery
- Over Load Protection: Auto-recovery
- Over Voltage Protection: Shutdown and latch off, AC recycle



**RoHS Compliant**

Dimension : L170 x W85 x H44 mm ( 6.69"x 3.35"x 1.73")

Weight : 0.78 kgs. ( 1.72 lbs. )

**SAFETY STANDARDS**

- UL 60950-1
- CSA C22.2-No.60950-1
- TUV EN60950-1
- CB IEC 60950-1

**EMC STANDARDS**

- FCC Class B
- CISPR22 Class B
- EN 55022 Class B
- CE

**ENVIRONMENTAL**

- Operating temperature : 0 to +60°C (Derate linearly 2.5% per °C from 41 to 60°C)
- Storage temperature : -10°C to +85°C
- Humidity: 10% ~ 90%.
- MTBF : > 140,000 hours at full load and 25°C ambient temperature

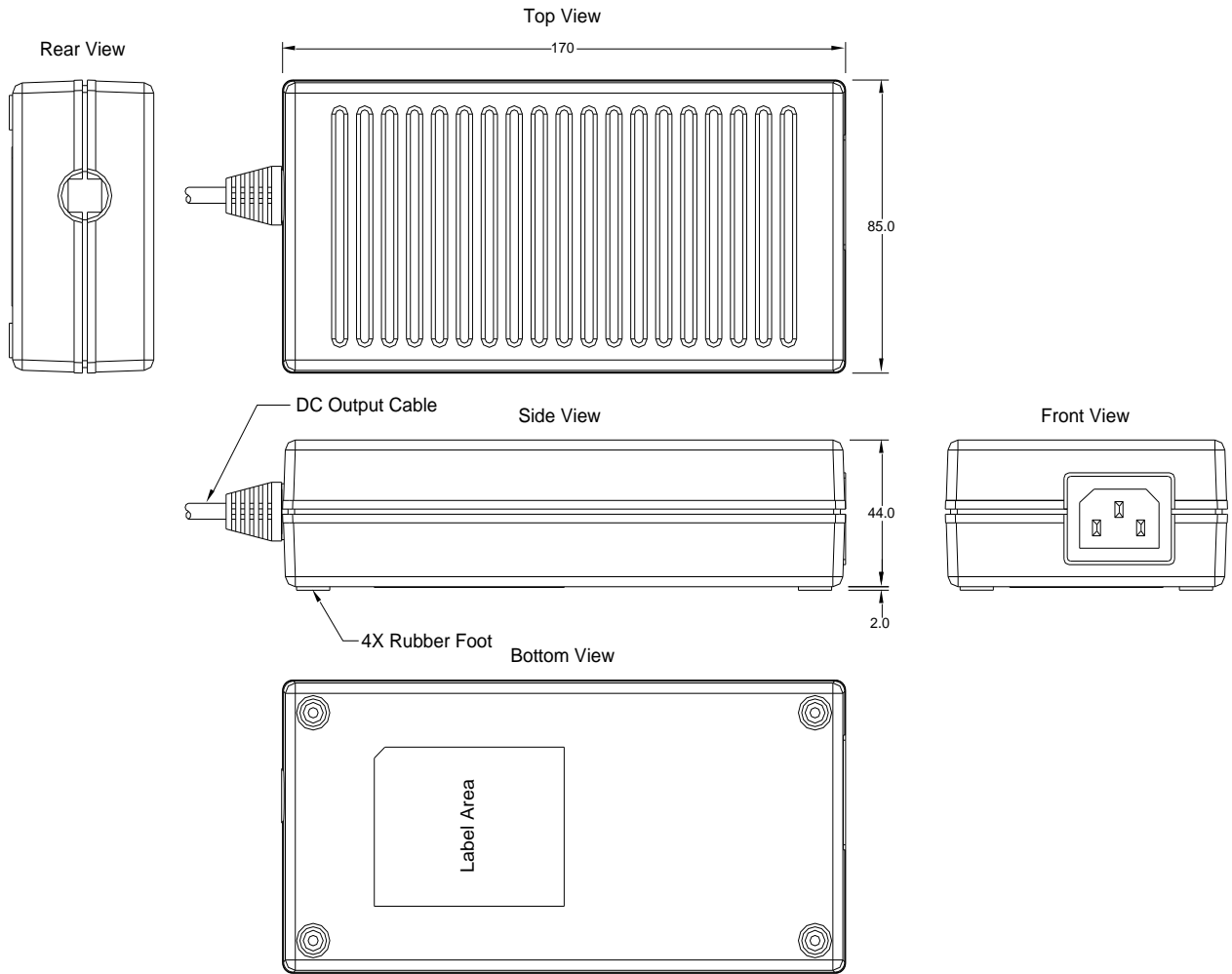
**DC OUTPUT & FEATURES**

✳ Other DC output 100W for 12-26V, 33-39V and 44-52V.

Model	Output Rating		Po	O/P Regulation	Ripple & Noise(Vp-p)	Efficiency Level
PW-100A-1Y120H	12V	8.34A	100W	+/- 5%	240mV	VI
PW-100A-1Y160H	16V	6.25A	100W	+/- 5%	320mV	VI
PW-100A-1Y190H	19V	5.27A	100W	+/- 5%	380mV	VI
PW-100A-1Y240H	24V	4.17A	100W	+/- 3%	480mV	VI
PW-100A-1Y360H	36V	2.78A	100W	+/- 3%	480mV	VI
PW-100A-1Y480H	48V	2.09A	100W	+/- 3%	480mV	VI

**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 1571 # 14 AWG / 1C + SHIELDING, UL 80°C 30V VW-1, 1050 mm. (12-24V)
2. AWM 1185 # 16 AWG / 1C + SHIELDING, UL 80°C 300V VW-1, 1050 mm. (36-48V)
3. Depends on customers requirements.