

## 100Watts ES Series

DOE level VI and EU ErP Tier 2 Efficiency Compliant  
AC/DC Switching Adapter - Single Output

### FEATURES

- 60950-1,62368-1 approvals
- 3-prong IEC320-C14 AC inlet, Class I
- Output voltage range from +12V to +52V
- DOE level VI and EU ErP Tier 2 Efficiency Compliant
- 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

### 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: 20% ~ 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)	DOE Efficiency	EU ErP
VP-100A-1Y120H	12V	8.34A	100W	± 5%	240mV	VI	Tier 2
VP-100A-1Y160H	16V	6.25A	100W	± 5%	320mV	VI	Tier 2
VP-100A-1Y190H	19V	5.27A	100W	± 5%	380mV	VI	Tier 2
VP-100A-1Y240H	24V	4.17A	100W	± 3%	480mV	VI	Tier 2
VP-100A-1Y360H	36V	2.78A	100W	± 3%	480mV	VI	Tier 2
VP-100A-1Y480H	48V	2.09A	100W	± 3%	480mV	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.



### RoHS Compliant

Dimension : L170 × W85 × H44 mm ( 6.69" × 3.35" × 1.73")  
Weight : 0.78 kgs. ( 1.72 lbs. )

### SAFETY STANDARDS

UL 60950-1  
UL 62368-1  
CSA C22.2-No.60950-1  
CSA C22.2-No.62368-1  
TUV EN60950-1  
TUV EN62368-1  
CB IEC 60950-1  
CB IEC 62368-1

### EMC STANDARDS

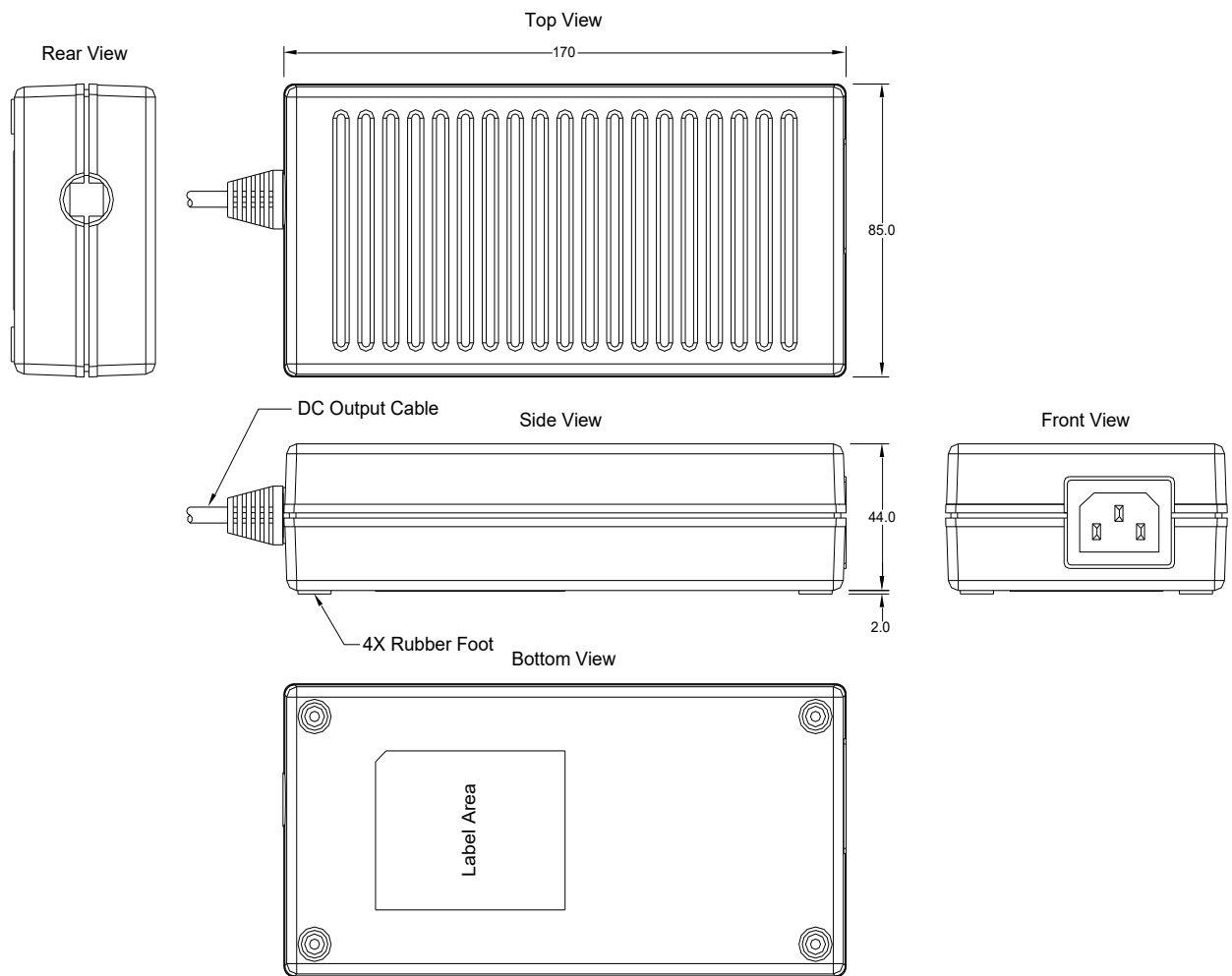
FCC Class B  
CISPR22 Class B  
EN 55032 Class B  
CE



# VP EA-0221

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## 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.