POWER-WIN TECHNOLOGY CORP.

www.power-win.com

AD-A5 V3 200Watts Series

US DOE & EU ErP Efficiency Compliant

AC/DC Switching Adapter - Single Output

FEATURES

- Meet DOE level VI and EU tier 1 Efficiency requirements
- 3-pole IEC320-C14 AC inlet
- Build-in 40x40x10mm DC fan with fan speed control
- Touch current : < 190uA @264VAC
- Altitude during operation: up to 3000m.
- No load Power consumption < 210mW
- 3 year warranty

RoHS Compliant

Dimension : L188.5 × W104.5 × H60 mm (7.42" × 4.1" × 2.36")

Weight : 0.94 kgs. (2.07 lbs)

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) : 3A @90VAC; 1.5A @264VAC max.
- Efficiency : > 88% @average load, 115/230VAC
- Maximum output power (Po) : 200Watts
- 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

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

ENVIRONMENTAL

- Operating temperature : -20 to +60°C (Derate linearly 2.5% per °C from 51 to 60°C)
  (Derate linearly 1.0% per °C from -1 to -20°C)
- Storage temperature : -20°C to +85°C
- Humidity: 10% ~ 90%.
- MTBF : > 140,000 hours at full load and 25°C ambient temperature

DC OUTPUT & FEATURES

Model	Output Rating		Po	O/P Regulation	Ripple & Noise(Vp-p)	Efficiency Level
PW-200A3-1Y120E	12V	16.66A	200W	±5%	240mV	VI
PW-200A3-1Y160E	16V	12.50A	200W	±5%	300mV	VI
PW-200A3-1Y190E	19V	10.53A	200W	±5%	300mV	VI
PW-200A3-1Y200E	20V	10A	200W	±5%	300mV	VI
PW-200A3-1Y240E	24V	8.33A	200W	±5%	300mV	VI
PW-200A3-1Y360E	36V	5.555A	200W	±5%	300mV	VI
PW-200A3-1Y480E	48V	4.166A	200W	±5%	300mV	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.
2. -20 to -10°C output characteristics Output regulation are ±7% for 36V.

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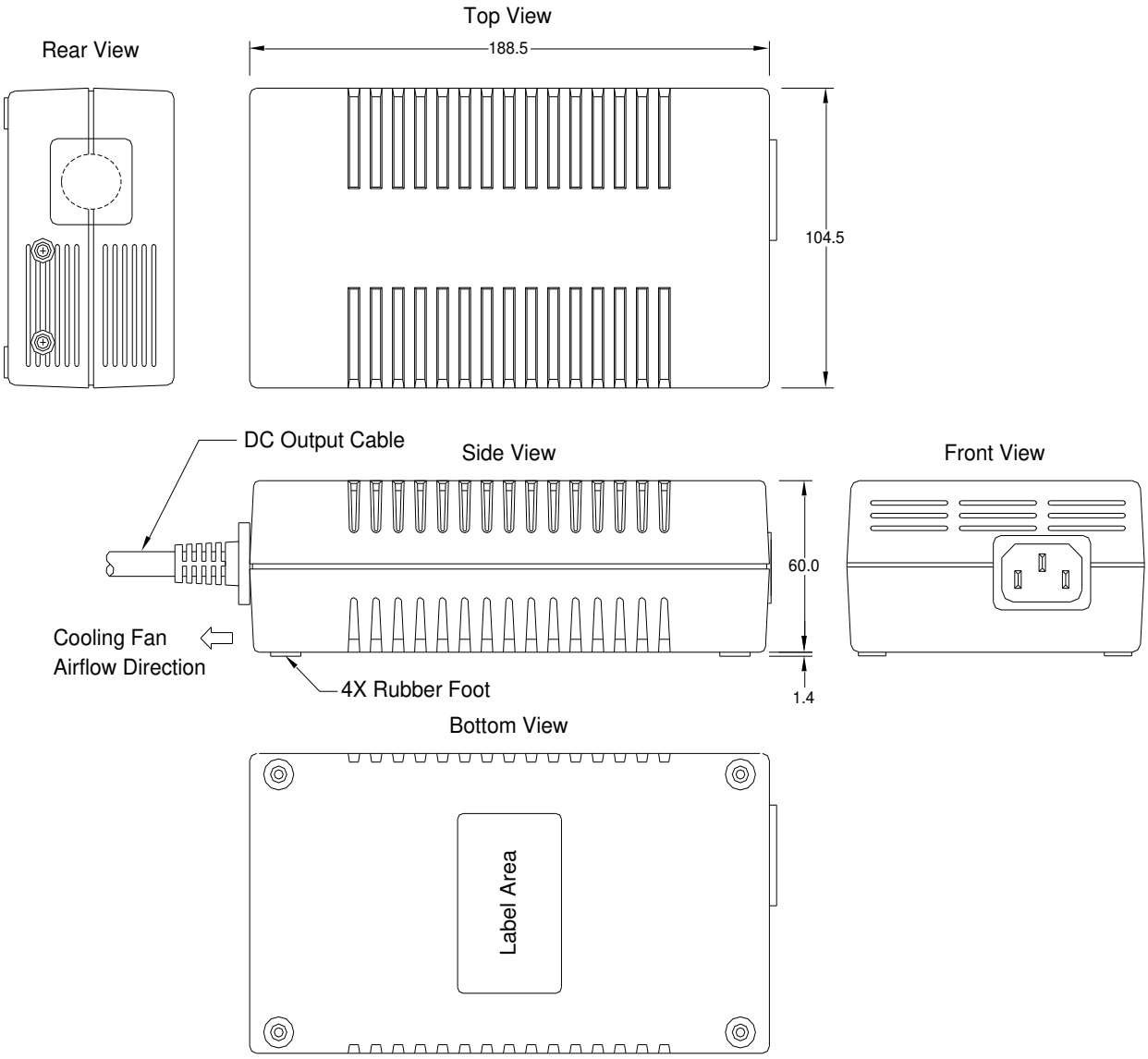
MECHANICAL SPECIFICATION

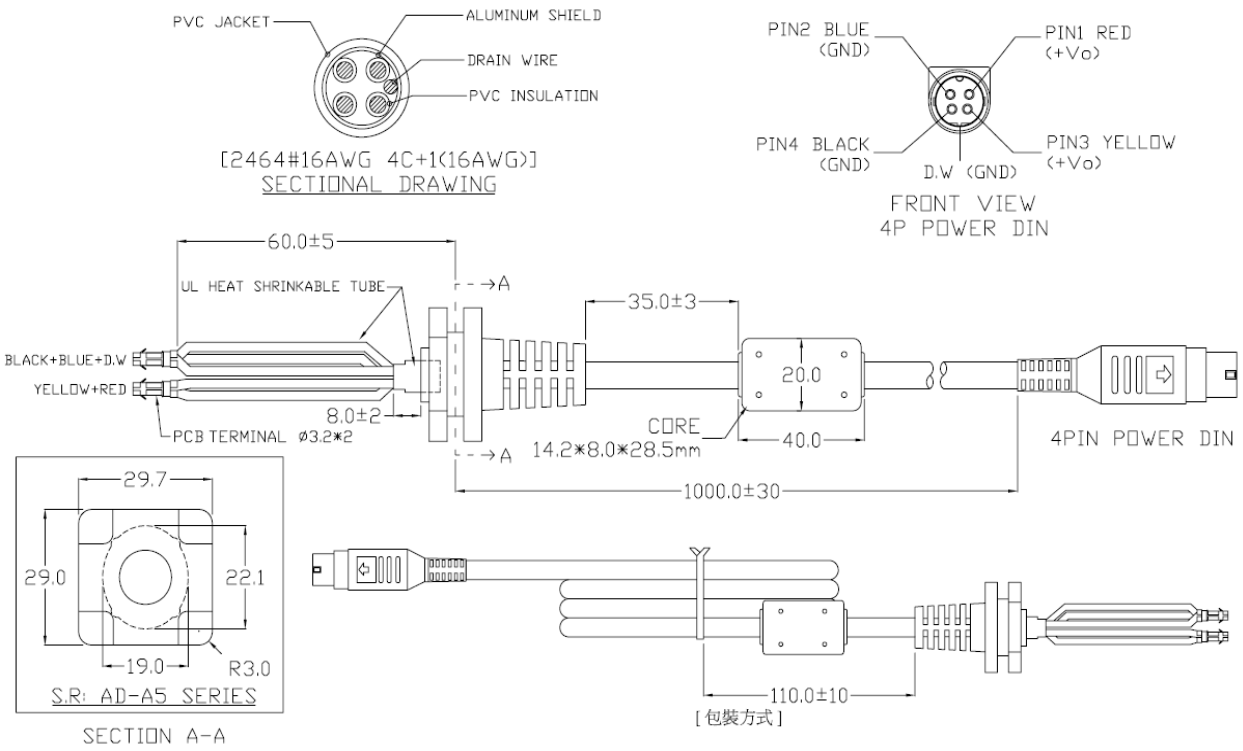


Note:
1. AC Inlet : IEC320-C14
2. Plastic Case Color : Black
3. Tolerance : ± 0.5mm
4. Unit : mm

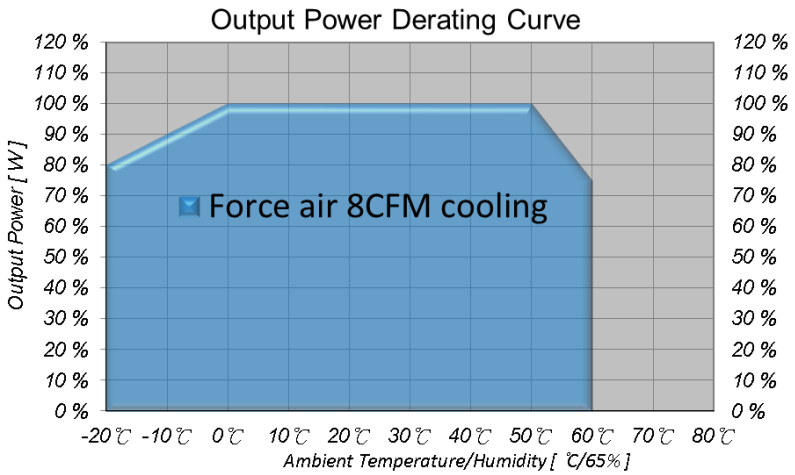
MECHANICAL SPECIFICATION

MATCHING CONNECTORS

DC output cable: 4C+1, UL2464, 16AWG, 1,000mm with 4-Pin Power DIN connector



Derating Curve



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TECH SOLUTIONS

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