

AC/DC Switching Adapter - Multiple Output

**ITE AC/DC Power Adapter Multiple Output
AD-A12 V2 Series 180Watts
US DOE & EU ErP Efficiency Compliant**

FEATURES

- 3-Prong IEC 320-14, Class I
- Altitude: ITE up to 5000m
- <0.3Watts No load input Power.
- Touch current less than 100uA
- No minimum load required
- 3 year warranty

ELECTRICAL SPECIFICATIONS

- Input range : 90-264VAC.
- Frequency : 47-63Hz.
- Power Factor : > 0.95 @115VAC@full; > 0.90 @230VAC @80% Load
- Inrush current : < 25A peak @115VAC; < 50A peak @230VAC cold start @25°C.
- Input current (rms) : 3A @115VAC; 1.5A @230VAC max.
- Efficiency : > 86% @Average Efficiency, 115/230VAC.
- Maximum output power (Po) : 180Watts.
- Hold-up time : > 16ms typical @full load, 115VAC.
- Short Circuit Protection : Auto-recovery.
- Cross Regulation : 0%-100%.
- Over Load Protection : Auto-recovery.
- Over Voltage Protection : Latch off, AC recycle.
- Over Temperature Protection : Auto-recovery.

ENVIRONMENTAL

- Operating temperature : -20 to +60°C (Refer to derating curve).
- Operating Humidity : 10°C-95°C, non-condensing.
- Storage Humidity : 0-95% , non-condensing.
- MTBF : >300,000 hours at full load and 25°C ambient temperature based on Bellcore TR-332.



RoHS compliant

Dimension : L 200xW 90xH45 mm (7.874"x3.543"x1.77")
Weight : 1.2kgs. (2.65 lbs.)

SAFETY STANDARDS

UL/c-UL UL62368-1
TUV EN62368-1
CB IEC62368-1

EMC STANDARDS

EN55032 Class B
EN55035 Class B
FCC Part15 Class B
ICES-003
CE

DC OUTPUT & FEATURES

Model No.	Output Rating			Total Power	O/P Regulaion	Ripple & Noise(Vp-p)	US DOE & EU ErP
	Vo	Io(max)	Minimum Load				
PW-180A2-2Y01P	+12V	15A	0A	180W	±5%	120mV	VI
	+5V	14A			±5%	100mV	
PW-180A2-2Y02P	+12V	15A	0A	180W	±5%	120mV	VI
	-12V	1A			±5%	120mV	
PW-180A2-3Y01P	+12V	15A	0A	180W	±5%	120mV	VI
	+5V	14A			±5%	100mV	
	-12V	1A			±5%	120mV	

Note:

1. Ripple and noise are measured at oscilloscope 20MHz bandwidth by a 47uF electrolytic capacitor and a 0.1uF ceramic capacitor in parallel at output connector.
2. The switching frequency of this series is set within 70 to 90KHZ at full load.



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Safety and EMC Performance

Description	Safety	EMC
ITE equipment	IEC62368-1 :2014(Second Edition) EN62368 :2014+A11 UL62368 3,2nd Edition,2014-12-01 CAN/CSA C22.2 No. 62368-1-14,2nd Edition	EN55032 & EN55035 & FCC part 15(*) and ICES-003

Meet medical IEC 6060-1 & 6060-1-2

Tests for conformance to this requirement will be performed with final system

(*) FCC PAPT15 compliance information and warnings:

This device complies with part 15 of FCC Rules.

Operation is subject to the following two conditions:

(1)This device may not cause harmful interference, and

(2)This device must accept any interference received, including interference that may cause undesired operation.

INSULATION LEVEL AND DIELECTRIC WITHSTAND (HI-POT)

Audio/Video, ITE equipment	Isolation Voltage	Grade insulation
Primary to Secondary	4242VDC(3000Vac)	Reinforced
Primary to Ground	2121VDC(1500Vac)	Basic
Secondary to Ground	2121VDC(1500VaC)	Basic

Note: Production testing use dc voltage test for 4 Sec.



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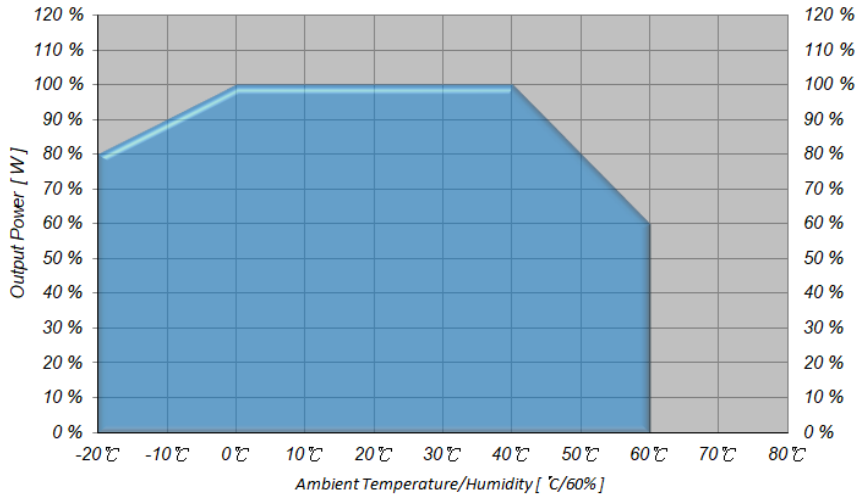
Derating curve:

Output vs Ambient temperature derating curve

Derate linearly 2% per °C from 41 to 60°C

Derate linearly 1% per °C from 0 to -20°C

Output Power VS Ambient Temp. Derating Curve

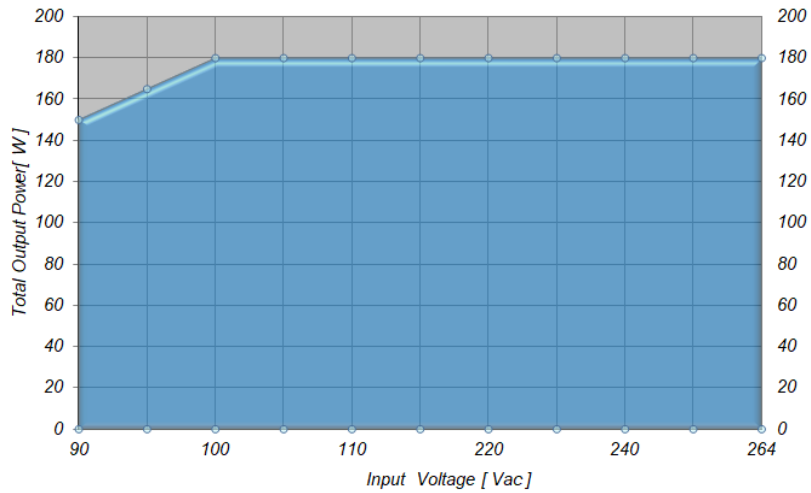


Derating curve:

Output vs Input voltage derating curve

180W Derate linearly 1.6% Per Vac from 100 to 90Vac

Output Power vs. Input voltage Derating Curve



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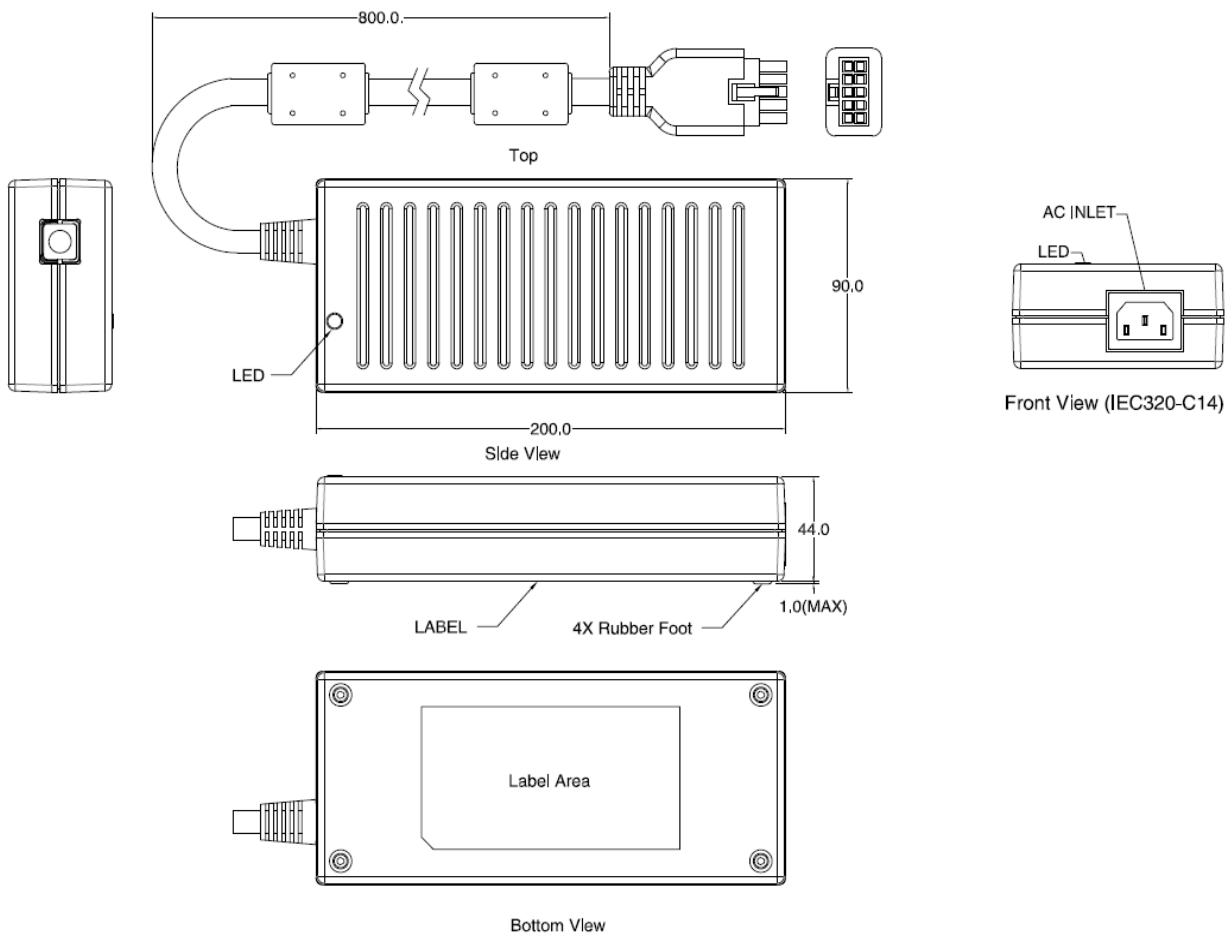
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REV. 1.1

MECHANICAL SPECIFICATION



Dimension : L200(7.874") x W90(3.543") x H45(1.77")mm
NOTE : TOLERANCE: +/-1mm(0.04")(LxWxH)

Note:

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



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