



12W DoE VI & CoC V5 Teir 2 Fixed Pin Adapter

AA12A-120A-R

● 12V ● DoE 6 & CoC V5 T2 ● Fixed Pin ● Wire ● Black



The 12V/1A adaptor series is the latest offering from a world leader in charging adapter technology and manufacturing - Phihong Technology. Phihong 12V/1A value adaptor is designed to use with most 12V powered networking communication devices, such as Router, Switch, Set-Top Box (STB) and other 12V powered devices. Our 12V value adaptor conforms to most of the industry standards and meets COC level 5 and DoE VI energy efficiency requirements, we ensure our products meet or exceed all the industry performance and safety requirements.

Features :

Efficiency	DoE Level VI & CoC V5 Tier 2 (83.26% min)
No Load Input Power	≤75mW @ 115/230Vac
Average Efficiency	83.26% Min @ 115Vac/60Hz, 230Vac/50Hz
Eff @ 10% load	73.26% Min @ 115Vac/60Hz, 230Vac/50Hz
Protection	SCP, OVP, OCP
Hold-up Time	>10mS @ 120Vac, max load
Rise Time	<100mS @ 120Vac, max load
Fall Time	<50mS @ 120Vac, max load
Isolation	Primary to Secondary 3000Vac, 10mA for 1min.
Insulation	Primary to Secondary >10M ohm 500Vdc
DC Output Cable	1200±30mm, UL-2468 AWG#26
DC Output Connector	5.5x2.1x10mm, straight barrel
Dimension	71.2*33.9*46 (mm)

Electrical Specifications :

Input Voltage	100~240Vac (90~264Vac min/max)
Frequency	50/60Hz Nom (47~63Hz min/max)
Input Current	500mA (RMS) @100Vac max load
Output Voltage	12V,
Maximum Output Power	12W continuous
Output Current	0~1A
Output Ripple & Noise	240mV (pk-pk) @25°C, at 115Vac/60Hz & 230Vac/50Hz
Leakage Current	<0.25mA @240Vac
Inrush Current	<40A @ 115Vac/60Hz, 25°C , cold start <60A @ 230Vac/50Hz, 25°C , cold start
DC Output Capacitance	3300uF@ Von=2V(CC Mode) ,100~240Vac full load ,

Environmental Specifications :

Operating Temperature	0°C ~ +40°C
Storage Temperature	-40°C ~ +85°C
Operating Humidity	90% RH
Storage Humidity	90% RH
E-Cap Lifetime	>3 year @ full load, 25°C or >1 year @ full load, 40°C
MTBF	>400K hrs @ 100Vac, 40°C

Safety and Compliance :

Safety Requirement	UL60950-1
EMI	EN55022 class B , FCC class B
ESD	EN50082-1 : EN61000-4-2 , Level 4 Contact 8KV ,Air 15KV , Criteria B
Surge	EN61000-4-5 , Level 3 (1KV) , Criteria B
RS	EN61000-4-3 , Criteria A
EFT/B	EN61000-4-4 , Criteria B
CS	EN61000-4-6 , Criteria A
PFMF	EN61000-4-8 , Criteria A
Voltage Dip	EN61000-4-11 , Criteria B

Note:

- Measurements shall be made with an oscilloscope with 20MHz bandwidth. Output shall be bypassed at a connector with a 0.1uF ceramic capacitor and a 10uF low ESR electrolytic capacitor.
- Efficiency: Measure efficiency at 100%, 75%, 50%, 25% load after burn-in 30 minutes at 100% load, then compute the arithmetic average of these 4 values.

*X=A A=USA



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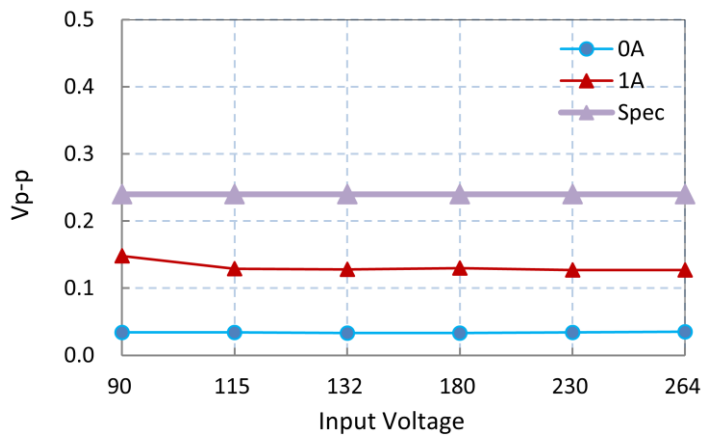
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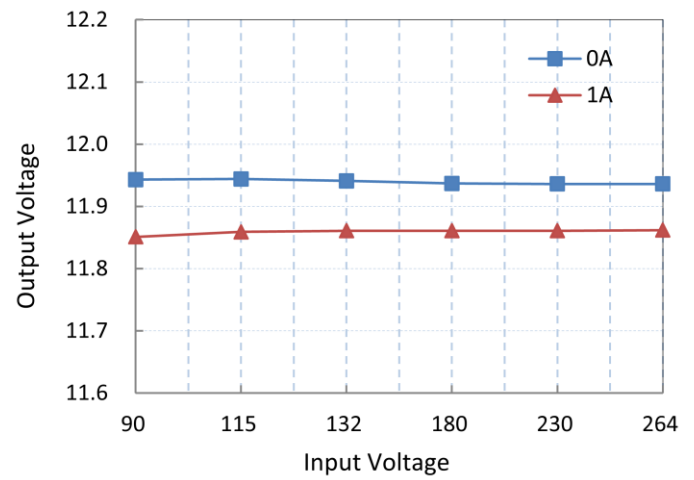
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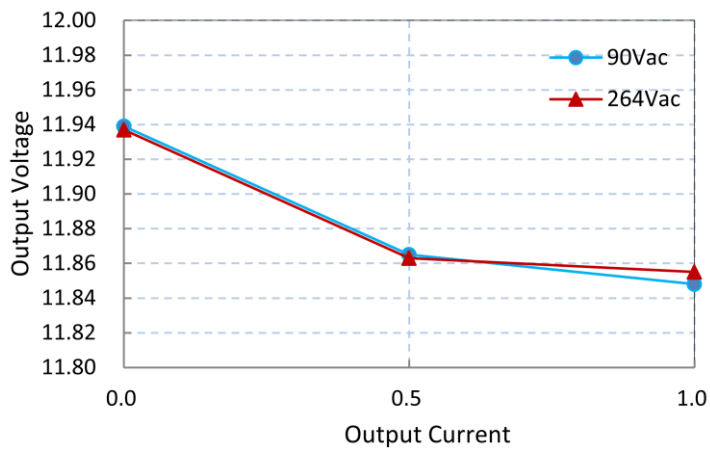
Ripple Noise



Line Regulation



Load Regulation



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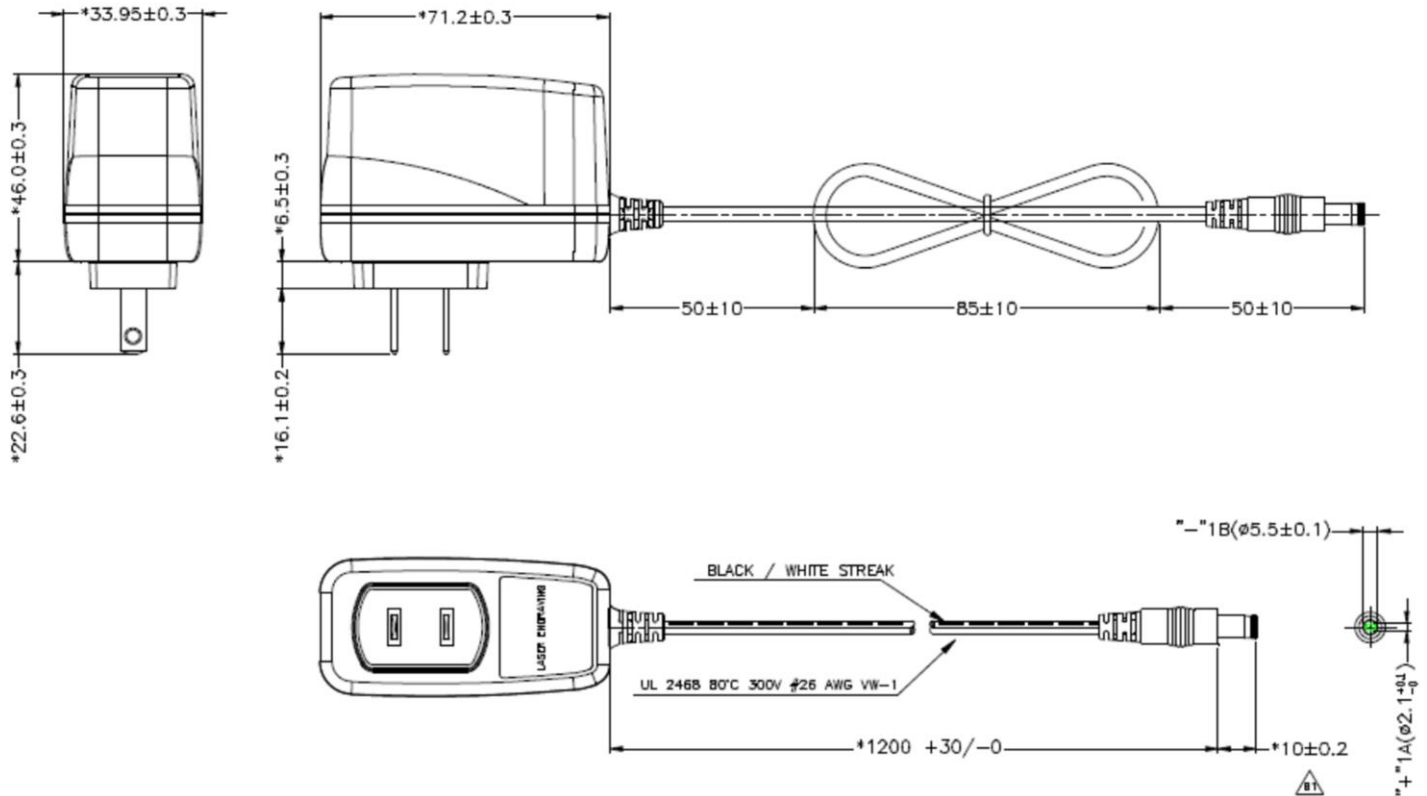
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Dimensions: mm



Model Selections

Model Number	Plug Type	Output Current (A ±5%)	Output Voltage (Vdc)	Max. Output Power (W)
AA12A-120A-R	US	1	12	12

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