



# 12V/30W DoE VI Fixed Pin Adapter

AA30x-120A-R

● 12V/2.5A ● DoE VI & CoC V5 T2 ● Low Leakage Current ● 1KV Surge



The 12V/2.5A adapter is the latest offering from a world leader in charging adapter technology and manufacturing - Phihong Technology. Phihong 12V/2.5A value adapter is designed to work with most 12V powered networking communication devices, such as Router, Switch, Set-Top Box (STB) and other 12V powered devices. Our 12V value adapter conforms to most of the industry standards and meets DoE level 6 and CoC V5 Tier 2 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 (87.7%)
Power Saving	<0.075W @ no load
Protection	OVP, OCP, SCP
Over Voltage Protection	Output voltage<16V, auto recovery
Over Current Protection	Auto recovery
Short Circuit Protection	Auto recovery
Average Efficiency	>87.7%
10% Load Efficiency	>77.7%
Isolation	Primary to Secondary 3000Vac, 10mA for 1minute
Insulation	Primary to Secondary >10MΩ 500Vdc
Output Connector	DC Cord 1.5 meters 20AWG
Dimension (mm)	83.5*53.5*35.0

## Electrical Specifications :

Input Voltage	100~240Vac (90~264Vac min/max)
Frequency	50/60Hz Nom (47~63Hz min/max)
Input Current	0.9A (RMS) max @ 100Vac
Inrush Current	60A max @ 230Vac/50Hz
Output Voltage	12V,
Output Current	2.5A
Output Voltage Regulation	11.4 – 12.6V @ 0A – 2.5A
Maximum Output Power	30W max
Output Ripple & Noise	200mV (pk-pk) @ max load
Leakage Current	10uA max
Turn-On Delay Time	<3 sec @ 90Vac/50Hz & max load
Hold-up Time	>10ms @ 115Vac/60Hz & max load

## Environmental Specifications :

Operating Temperature	0°C ~ +40°C
Storage Temperature	-20°C ~ +70°C
Operating Relative Humidity	90% R.H.
Storage Relative Humidity	90% R.H.
Altitude	5000M
MTBF(MIL-HDBK-217)	>50K hours @100Vac & 240Vac, 25°C

## Safety and Compliance :

Safety	UL/cUL: UL 60950-1, 2nd Edition, 2014. CAN/CSA C22.2 No. 60950-1-07, 2nd Edition, 2014	
	TUV-GS: EN60950-1: 2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013 CB: IEC 60950-1:2005 (2nd Edition) + A1:2009 + A2:2013	
EMC Immunity	ESD	EN61000-4-2 :2009, Level 4 Class B Contact 8KV, Air 15KV, Criteria B.
	RS	EN 61000-4-3:2006+A1:2008+A2:2010, 3V/m Criteria A.
	EFT	EN 61000-4-4:2012, 1KV Criteria B.
	Surge	EN 61000-4-5:2006, Level 3 Criteria B Line to Line: 1kV 1.2/50 us, 60s duration, Line to FG: 2kV 1.2/50us, 60s duration.
EMI Requirement	FCC Rules and Regulations Part 15 Subpart B 2015, class B; ICES-003 Issue 6 (January, 2016)	



PHIHONG TECHNOLOGY CO., LTD.

- +886-3-3277288  
- www.phihong.com.tw  
- phsales@phihong.com.tw





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## Model Selections

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Model Number	Plug Type	Output Current (A $\pm 5\%$ )	Output Voltage (Vdc)	Max. Output Power (W)
AA30A-120A-R	US	2.5	12	30
AA30E-120A-R	EU	2.5	12	30

### Headquarters

No. 568, Fusing 3rd Rd.,  
Gueishan District, Taoyuan City,  
333, Taiwan, R.O.C.  
Tel: +886-3-3277288  
Fax: +886-3-3185999  
phsales@phihong.com.tw  
www.phihong.com.tw

### Phihong USA

47800 Fremont Blvd.  
Fremont, CA 94538, USA  
Tel: +1-510-445-0100  
Fax: +1-510-445-1678  
usasales@phihongusa.com  
www.phihong.com

### Phihong China

Science & Technology Rd.,  
Silver Lake Industrial Area  
Qingxi Town, Dong Guan City,  
Guang Dong (523648), China  
Tel: +86-769-87319026  
Fax: +86-769-87317106  
phsales@phihong.com.tw

### Phihong Japan

〒135-0016 東京都江東区東陽  
3丁目23番24号 VORT 東陽町  
ビル5階  
TEL : +81-3-5677-1678  
FAX : +81-3-5634-5255  
phsales@phihong.com.tw  
www.phihong.co.jp

### Phihong Europe

Wattstraat 50, 2171 TR  
Sassenheim, The Netherlands  
Tel: +31-(0)-252-225910  
Fax: +31-(0)-252-218764  
sales@phihongeu.com  
www.phihong-lighting.com



PHIHONG TECHNOLOGY CO., LTD.

- +886-3-3277288  
- www.phihong.com.tw  
- phsales@phihong.com.tw