



# 36W USB 3.1 Type C Adapter

AQ36A/E-5CA-H

- 5V/3A; 12V/3A
- Type-C Reversible plug-in
- DoE 6, CoC V5 Tier 2
- Work with MacBook & Chromebook



Phihong 36W USB 3.1 Type-C Power Delivery (PD) adapter is an ideal charging solution for mobile devices. The 36W model follows USB 3.1 PD profile 3 and has output voltages 5V & 12V to charge Chromebook and MacBook. In addition, with the latest USB 3.1 Type-C receptacle, it allows the USB 3.1 cable either up or down orientation and reversible plug-in. It delivers both low no-load power consumption (<75mW) and high average efficiency (>88.3%) to meet DoE Level 6 and CoC V5 Tier 2 requirements.

## Features :

Efficiency	DoE Level VI and CoC V5 tier 2
No Load Input Power	$\leq 75\text{mW}$ @ 230Vac
Protection	OVP, OCP, SCP, OTP
Isolation	3000Vac, Primary to secondary 10mA, 1 min
Insulation Resistance	$>50\text{M}\Omega$ @ 500Vdc, Primary to secondary
OCP	$<4.5\text{A}$ @ 5V/12V
SCP	Auto recovery
OVP	$<16\text{V}$ , shutdown mode
OTP	Shutdown mode
Average Efficiency	5V/3A: $>81.84\%$ ; 12V/3A: $>88.30\%$
Efficiency @ 10% load	5V/3A: $>72.48\%$ ; 12V/3A: $>78.30\%$
Dimension	67 x 48 x 29 mm
Weight	130g

## Electrical Specifications :

Input Voltage	100~240Vac (90~264Vac min/max)
Frequency	50/60Hz Nom (47~63Hz min/max)
Input Current	0.9A (RMS) max @ 90Vac
Output Voltage Range	5V $\pm 5\%$ ; 12V $\pm 5\%$
Output Current Range	0~3A
Maximum Output Power	36W
Output Ripple & Noise	200mVpk-pk @max load
Earth Leakage Current	0.25mA max.
AC Inrush Current	90A max @ 240Vac

## Environmental Specifications :

Operating Temperature	0°C ~ +45°C
Storage Temperature	-40°C ~ +85°C
Humidity, Operation	90% RH Max
Humidity, Storage	90% RH Max
E-cap Life time	$>2\text{year}$ @ 25°C, Full load.
Altitude	5000M
MTBF (MIL-217)	$>50\text{K hours}$ @ 100V & 240V max load

## Safety and Compliance :



PHIHONG TECHNOLOGY CO., LTD.

- +886-3-3277288  
- [www.phihong.com.tw](http://www.phihong.com.tw)  
- [phsales@phihong.com.tw](mailto:phsales@phihong.com.tw)



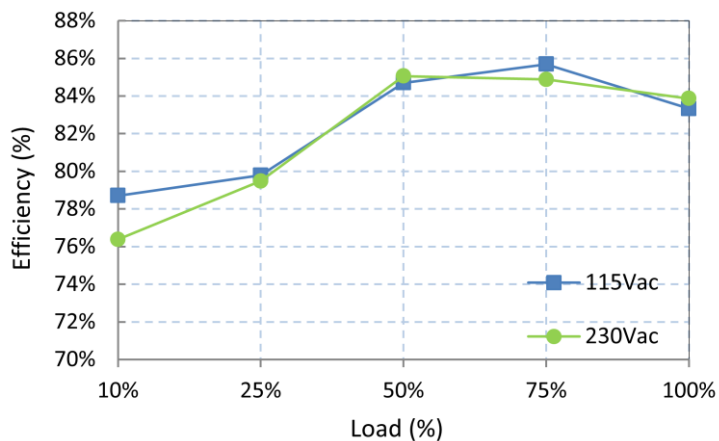
# 36W USB 3.1 Type C Adapter

AQ36A/E-5CA-H

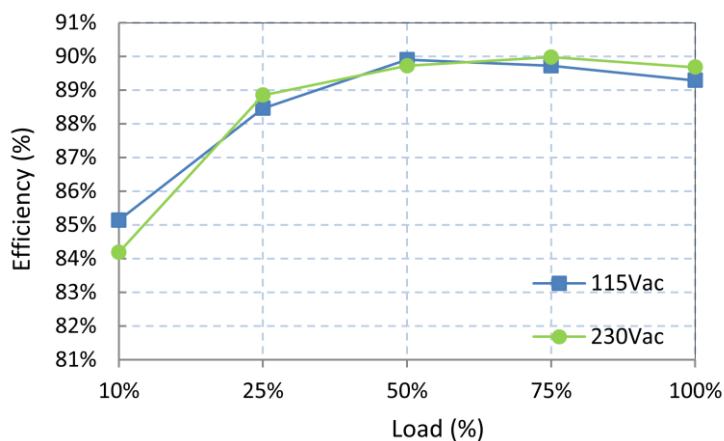
- 5V/3A;12V/3A ● Type-C Reversible plug-in ● DoE 6, CoC V5 Tier 2
- Work with MacBook & Chromebook



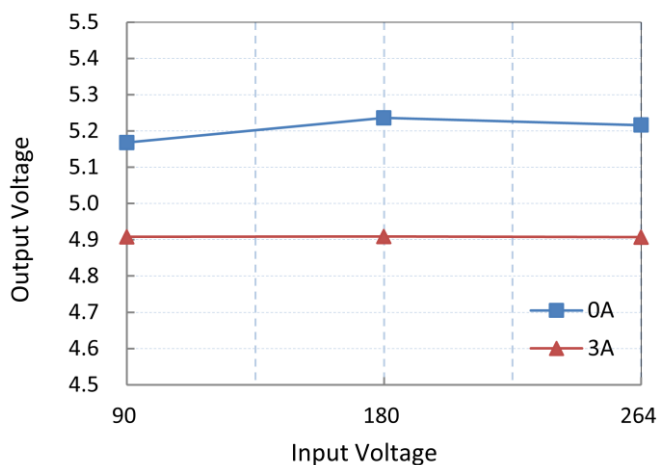
### Efficiency (5V/3A)



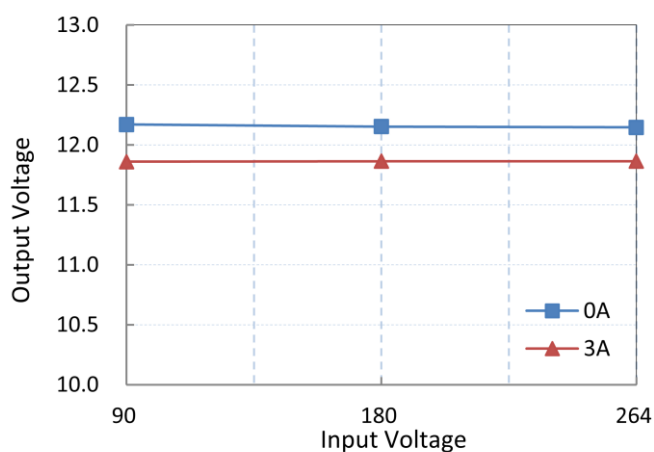
### Efficiency (12V/3A)



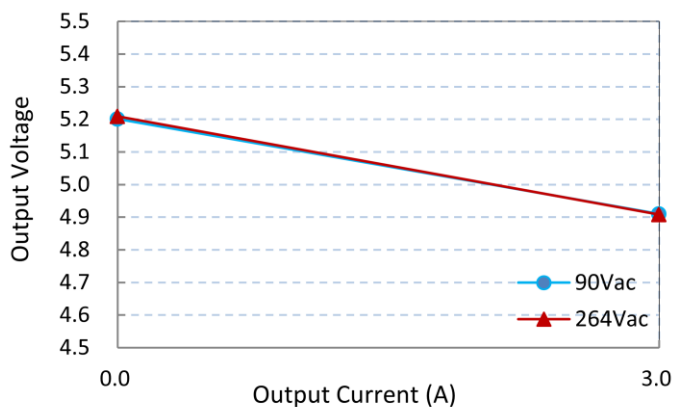
### Line Regulation (5V/3A)



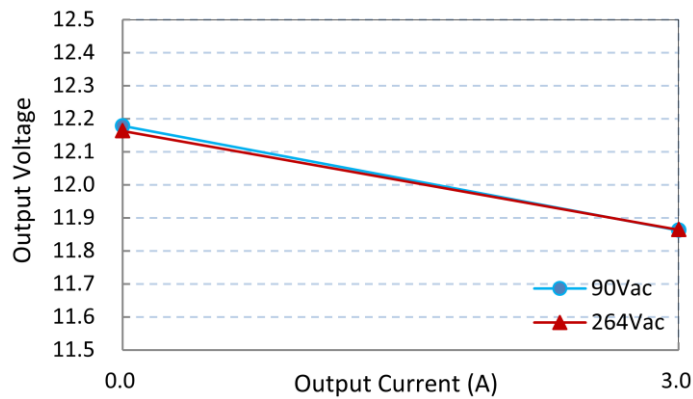
### Line Regulation (12V/3A)



### Load Regulation (5V/3A)



### Load Regulation (12V/3A)



PHIHONG TECHNOLOGY CO., LTD.

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



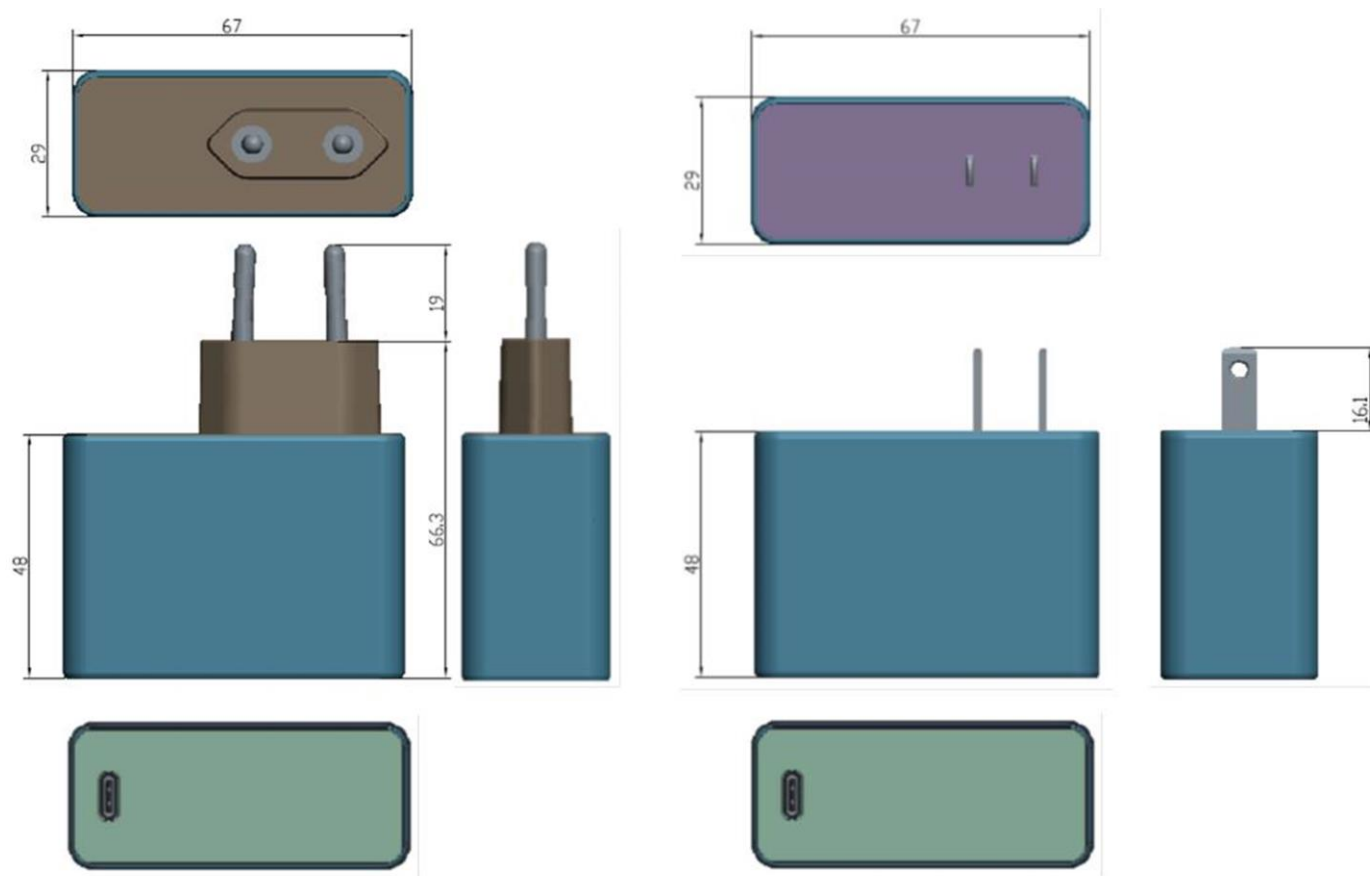
# 36W USB 3.1 Type C Adapter

AQ36A-5CA-H

- 5V/3A; 12V/3A
- Type-C Reversible plug-in
- DoE 6, CoC V5 Tier 2
- Work with MacBook & Chromebook



## Dimensions: mm



## Model Selections

Model Number	Plug Type	Case Color	Output Voltage (Vdc)	Output Current (A $\pm 5\%$ )	Max. Output Power (W)
AQ36A-5CA-H	US	Black	5/12	3	36
AQ36E-5CA-H	EU	Black	5/12	3	36

### 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@phihong.eu.com  
www.phihong-lighting.com



**PHIHONG TECHNOLOGY CO., LTD.**

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