



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



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 :

Safety & EMC	IEC/EN/UL 60950 Standard.
ESD test	IEC 61000-4-2: Level 2, Contact $\pm 4\text{KV}$, Criteria B; Level 3, Air $\pm 8\text{KV}$, Criteria B Level 4, Contact $\pm 8\text{KV}$, Criteria C Level 4, Contact $\pm 15\text{KV}$, Criteria C
RS	IEC 61000-4-3, Level 2, Criteria A
EFT	IEC 61000-4-4, Level 2, Criteria B
Surge	IEC 61000-4-5, Level 3, Criteria B
RF	IEC 61000-4-6, Level 2, Criteria A
CS	IEC 61000-4-8, Level 1, Criteria A



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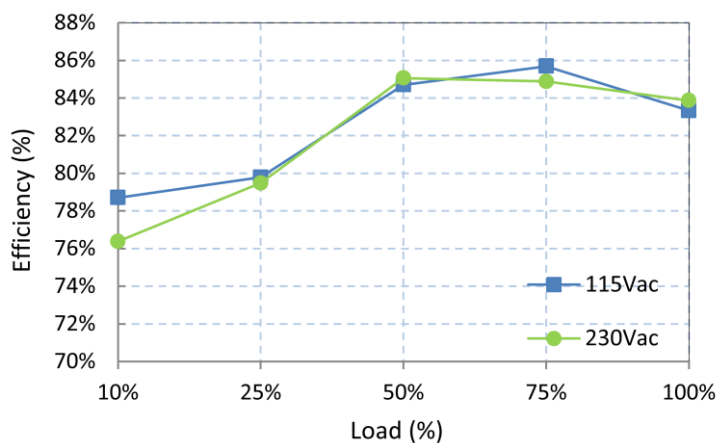
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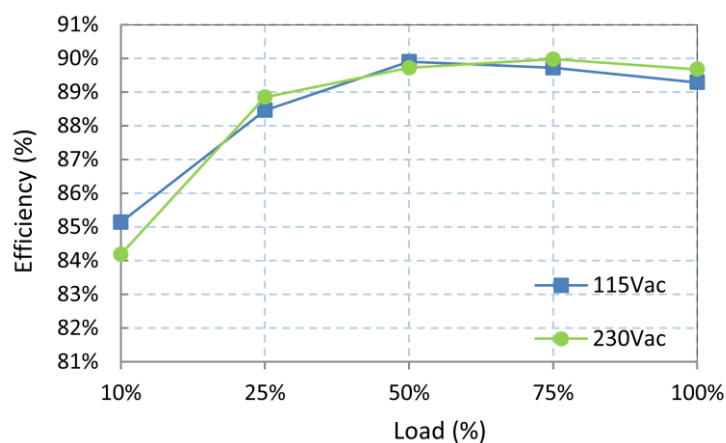
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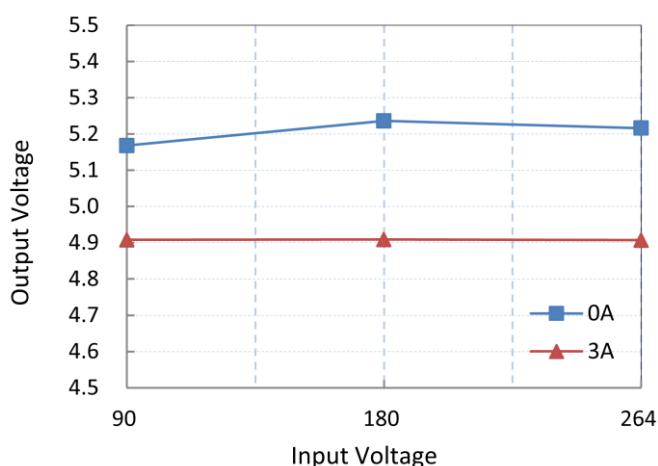
Efficiency (5V/3A)



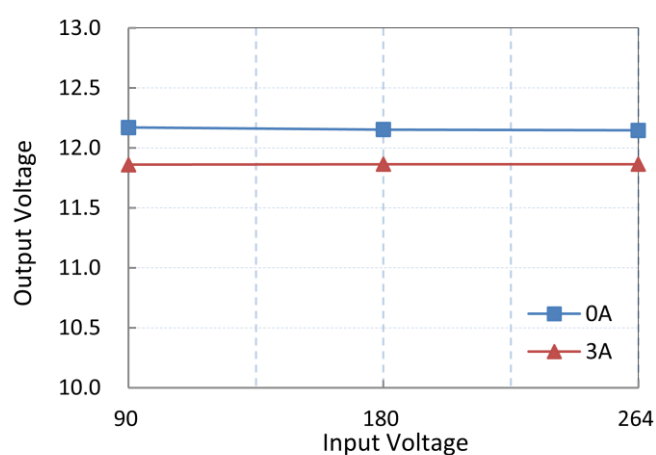
Efficiency (12V/3A)



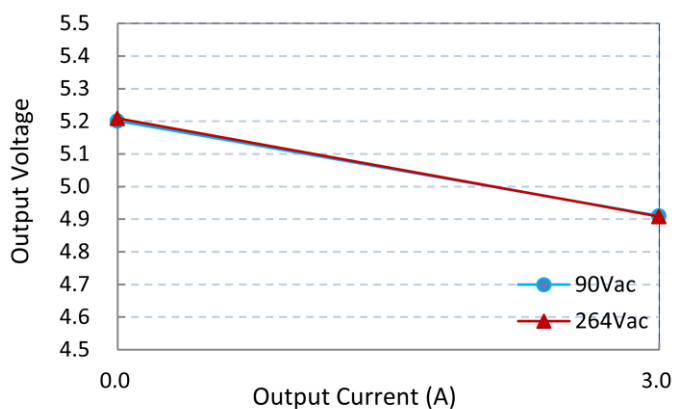
Line Regulation (5V/3A)



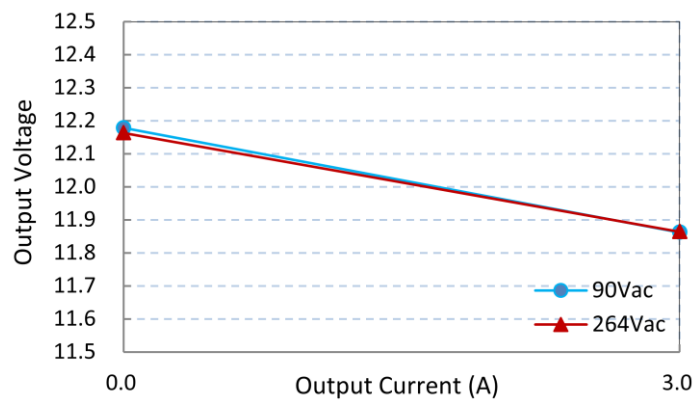
Line Regulation (12V/3A)



Load Regulation (5V/3A)



Load Regulation (12V/3A)



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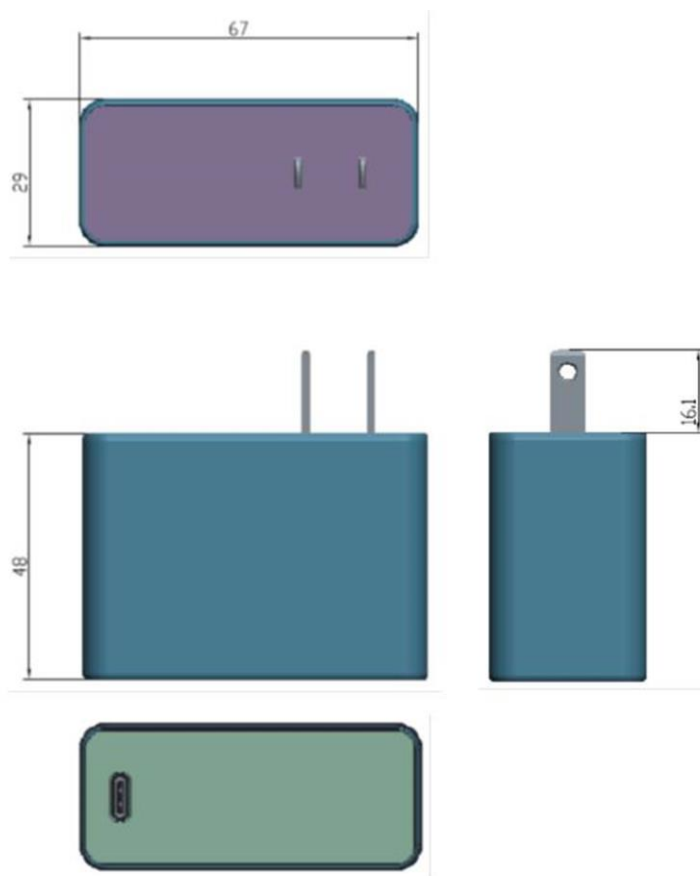
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Dimensions: mm



Model Selections

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

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