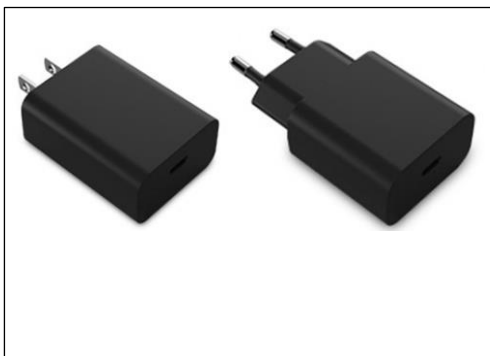




15W USB 3.1 Type C Adapter

AQ15A/E-050A-H

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



Phihong 15W USB 3.1 Type-C Power Delivery (PD) adapter is an ideal charging solution for mobile devices which are compatible with USB 3.1 Type-C PD. It follows USB PD Profile 1 with 3A output and will deliver power after negotiation through configuration line. Moreover, it allows the USB 3.1 cable reversible plug in with USB 3.1 Type-C receptacle. The 15W USB 3.1 Type-C adapters deliver both low no-load power consumption (<75mW) and high average efficiency (>81.8%) 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	$\leq 75\text{mW}$ @ 115/230Vac
Protection	OVP, OCP, SCP, OTP, Brown-in/Brown-out
Isolation	3000Vac, Primary to secondary 10mA, 1 min
Insulation Resistance	$>50\text{M}\Omega$ @ 500Vdc, Primary to secondary
OCP, SCP, OTP	Auto recovery
OVP	$< 9\text{V}$
Average Efficiency	$>81.84\%$
Efficiency @ 10% load	$>72.48\%$
Dimension	US: 40 x 52 x 23.3 mm; EU: 40 x 58 x 23.3 mm
Weight	US: 55g; EU: 52g
AC Plug	US, EU

Electrical Specifications :

Input Voltage	100~240Vac (90~264Vac min/max)
Frequency	50/60Hz Nom (47~63Hz min/max)
Input Current	0.5A (RMS) max @ 100Vac
Output Voltage Range	5V \pm 5%
Output Current Range	3~3.6A
Maximum Output Power	15W
Output Ripple & Noise	150mVpk-pk @max load
Earth Leakage Current	20uA Max.
AC Inrush Current	60A max @ 240Vac
Hold-up Time	10mS min @ 115Vac/230Vac, Max load
Turn-On Delay Time	1.0S Max. @ 90Vac, Max load
Rise Time	30mS Max. @ 90Vac/264Vac

Environmental Specifications :

Operating Temperature	0°C ~ +40°C
Storage Temperature	-40°C ~ +85°C
Humidity, Operation	90% RH Max
Humidity, Storage	90% RH Max
Altitude	5000m
E-cap Life time	$>2\text{year}$ @ 25°C, Full load.
MTBF (MIL-HDBK-217F)	$>100\text{K hrs}$ @ 230Vac, 25°C

Safety and Compliance :

Safety Certifications	IEC/EN/UL 60950-1 Standard.
ESD test	EN 61000-4-2; Contact discharges: $\pm 8\text{KV}$ Criterion B Air discharges: $\pm 15\text{KV}$ Criterion B
Lightning Surge	EN 61000-4-5 Line to Line: 1KV Criterion B
EMI Compliant	FCC Class B, EN55022 Class B



PHIHONG TECHNOLOGY CO., LTD.

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



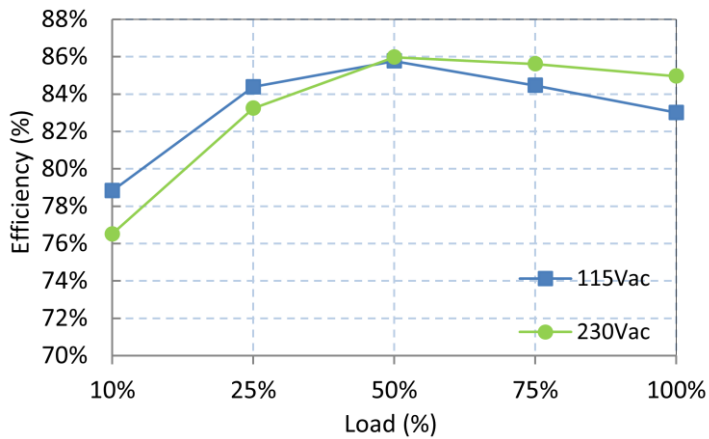
15W USB 3.1 Type C Adapter

AQ15A/E-050A-H

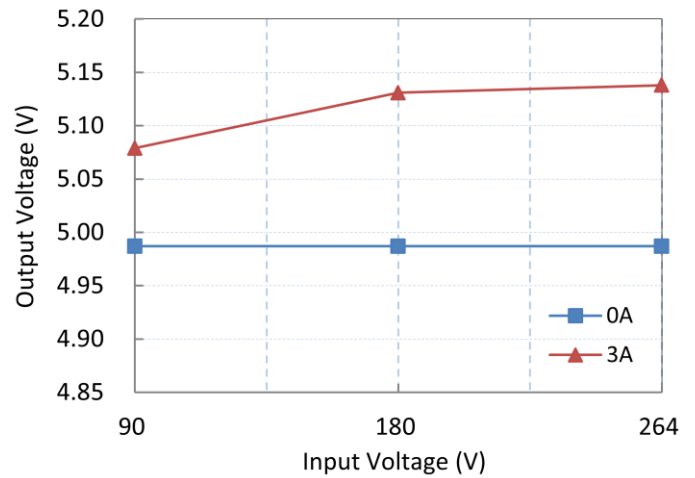
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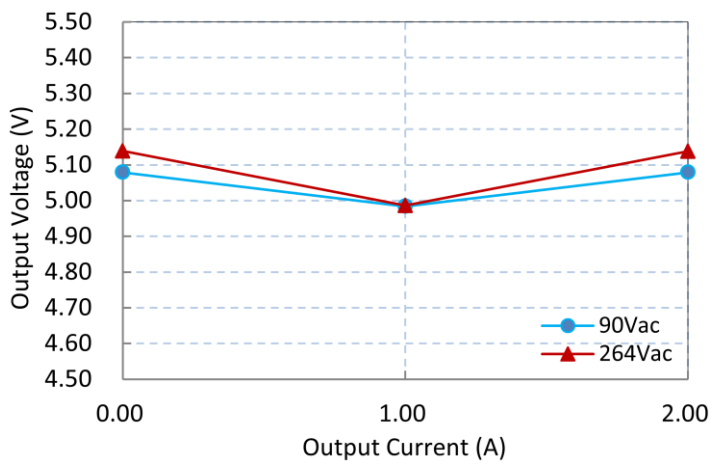
Efficiency



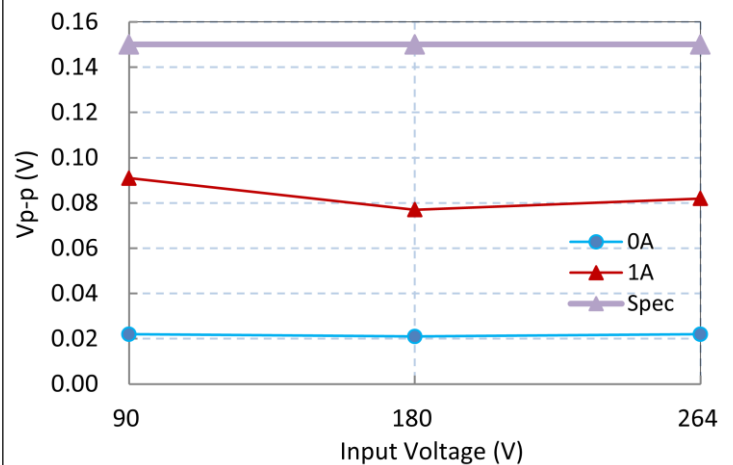
Line Regulation



Load Regulation



Noise & Ripple



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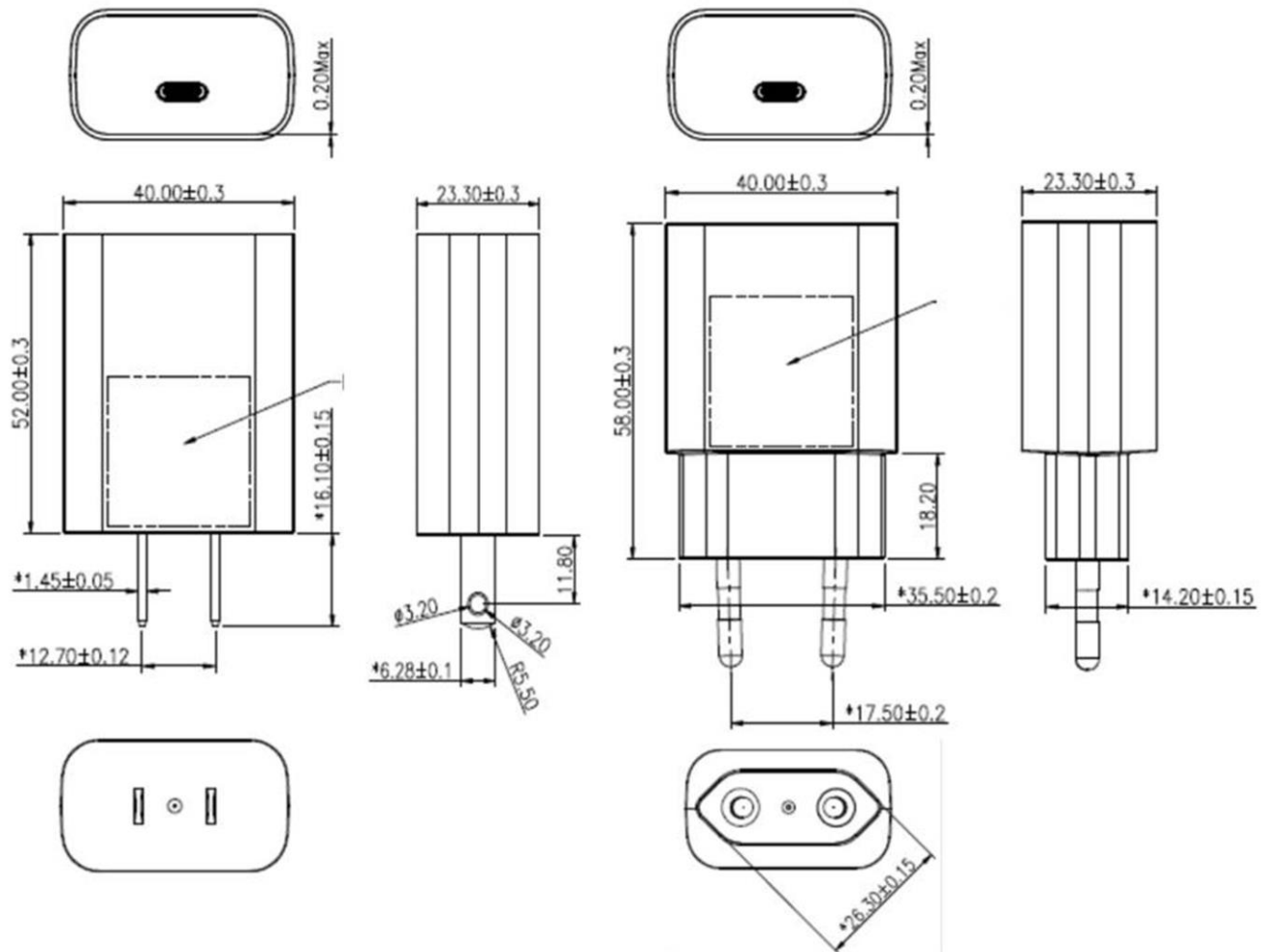
15W USB 3.1 Type C Adapter

AQ15A/E-050A-H

- 5V/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 ±5%)	Max. Output Power (W)
AQ15x-050A-H	Fixed	Black	5	3	15
AQ15x-050AW-H	Fixed	White	5	3	15

x=A & E(A=US, E=Europe)

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