



# 15W Fixed Pin Quick Charge 2.0 Adapter

PSA15X-308Q-H Series

● 5V/1.67A, 9V/1.67A, 12V/1.25A ● Fixed Pin ● USB ● Black/White



Phihong Quick Charge 2.0 (QC 2.0) adapters are tested and certified to Quick Charge 2.0 (QC 2.0) standard. This new product supports automatic sensing and switching between 3 output voltages (5V, 9V, 12V) to the QC 2.0-enabled mobile devices. It shortens the charging time by up to 75% and with efficiency significant above DOE level VI requirement, making your mobile device battery charging task an easy and joyful experience. Phihong is certainly your top choice for QC 2.0 adapters and alike. This adapter comes in US, EU or UK pins.

## Features :

<b>Efficiency</b>	CoC V5 Tier 2 & DOE Level VI 77.69% avg
<b>Power Saving</b>	<0.75W @ no load, 115Vac/ 230Vac (5V)
<b>Protection</b>	OVP, OCP, SCP, OTP
<b>Turn-On Delay Time</b>	<200ms at nominal AC power on
<b>Hold-up Time</b>	>10ms @ max load, 115Vac/60Hz
<b>Rise Time</b>	<50ms @ max load, 115Vac/60Hz
<b>Fall Time</b>	<50ms @ max load, 115Vac/60Hz
<b>Dynamic Response</b>	Rise rate = 0.1A/us, Fall rate = 0.1A/us
	5V mode : 4.1~5.6V
	9V mode : 8.1~9.9V
	12V mode : 10.8~13.2V
	(Load transient: 0% → 100%)
	T <sub>high</sub> = 5ms, T <sub>low</sub> = 5ms

## Electrical Specifications :

<b>Input Voltage</b>	100~240Vac (90~264Vac min/max)
<b>Frequency</b>	50/60Hz Nom (47~63Hz min/max)
<b>Input Current</b>	0.4A (RMS) Max
<b>Output Voltage</b>	5V, 9V, 12V
<b>Maximum Output Power</b>	15W continuous
<b>Maximum Output Current</b>	1.67A(5V), 1.67A(9V), 1.25A(12V)
<b>Output Ripple &amp; Noise</b>	180mV (pk-pk)
<b>Total Load Regulation</b>	4.75~5.25V ; 8.1~9.9V ; 10.8~13.2V
<b>Leakage Current</b>	<20uA Max
<b>Inrush Current</b>	<60A max @ 25°C, cold start.
<b>Isolation</b>	Primary to Secondary 3000Vac, 10mA for
<b>Insulation</b>	Primary to Secondary >50M ohm 500Vdc

## Environmental Specifications :

<b>Operating Temperature</b>	-5°C ~ +45°C
<b>Storage Temperature</b>	-40°C ~ +85°C
<b>Humidity</b>	0% ~ 90%

## Safety and Compliance :

US: UL, NRCAN
EU: IEC 60950-1: 2005 + A1 + A2

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, E, K A=USA E=EU K=UK



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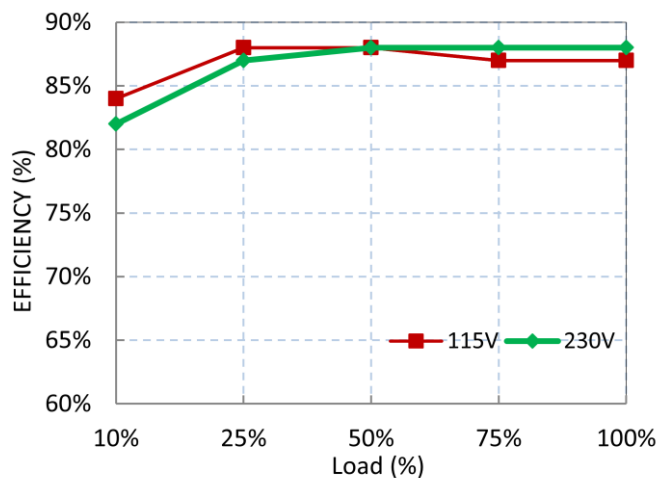
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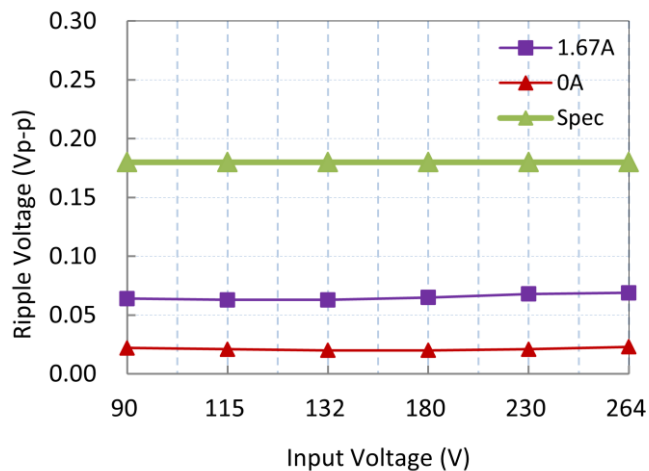
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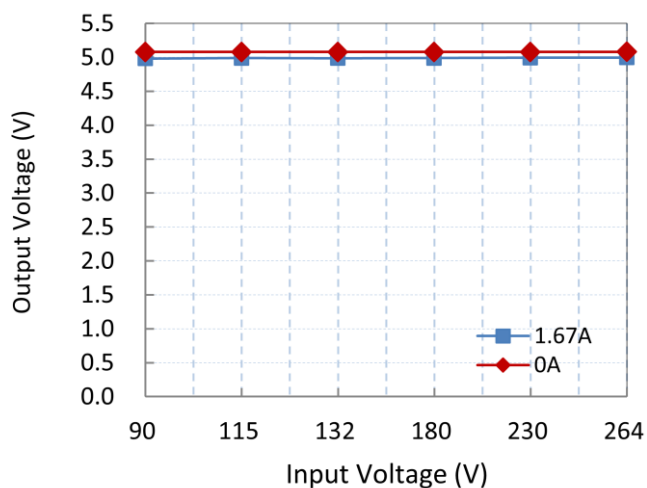
## Efficiency



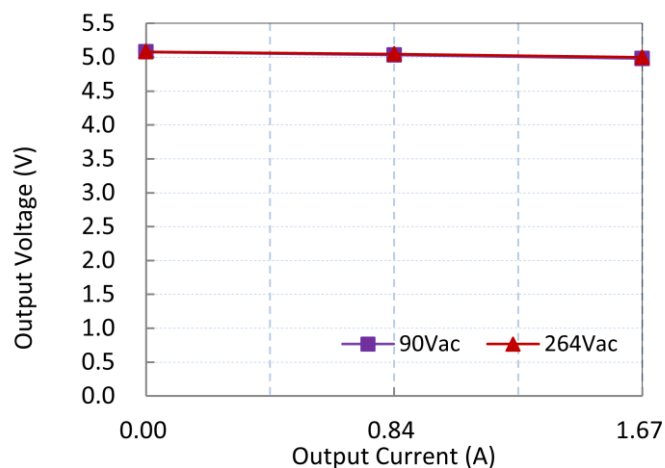
## Ripple Noise



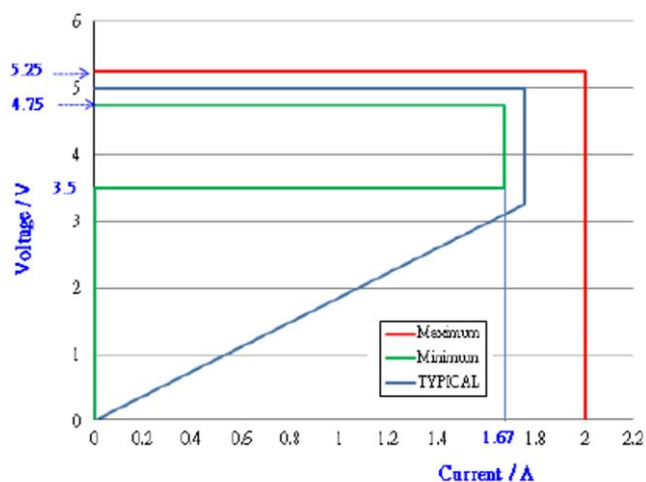
## Line Regulation



## Load Regulation



## Output Voltage vs. Current Characteristic



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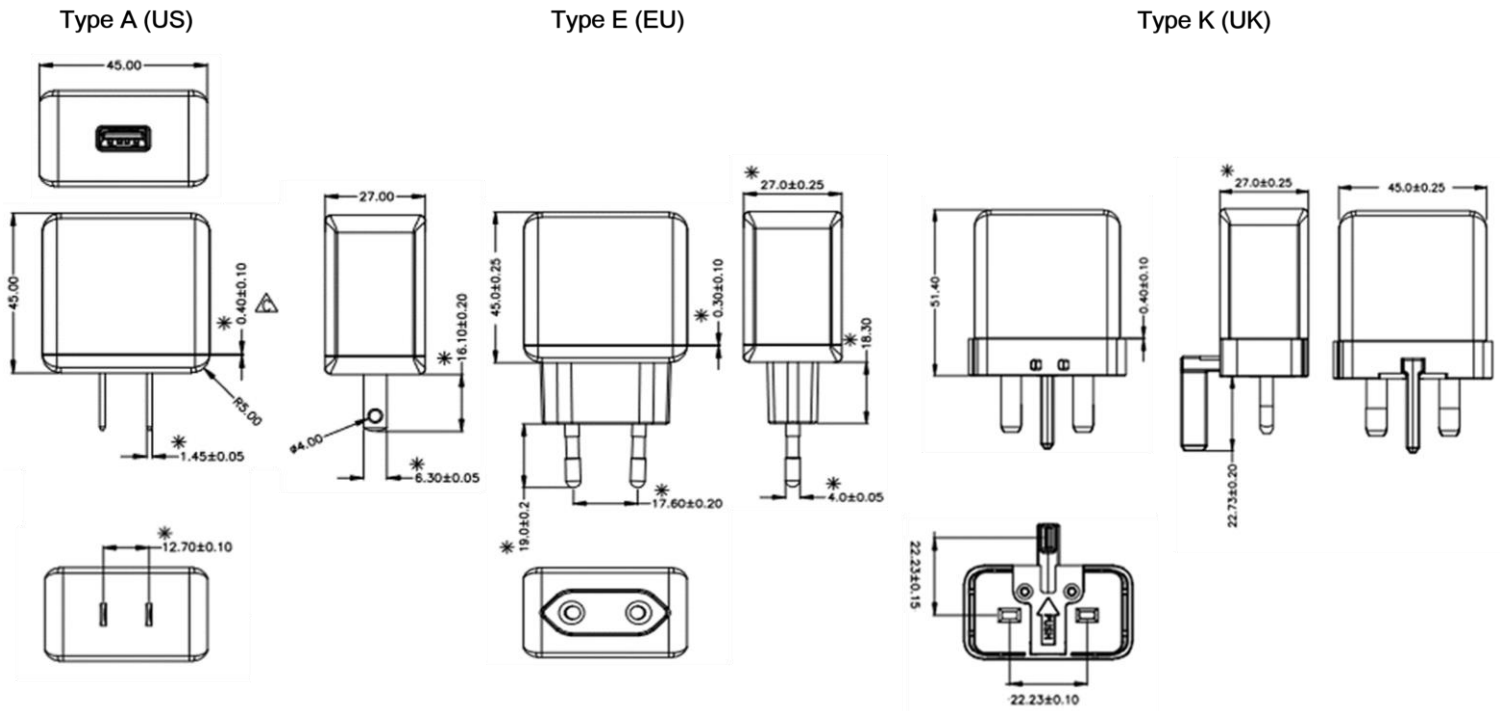
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## Dimensions: mm



## Model Selectins :

Model Number	Plug Type	Case Color	Output Voltage ( Vdc )	Output Current ( A )	Max. Output Power ( W )
PSA15A-308Q-H	US	Black	5, 9, 12	1.67, 1.67, 1.25	15
PSA15E-308Q-H	EU	Black	5, 9, 12	1.67, 1.67, 1.25	15
PSA15K-308Q-H	UK	Black	5, 9, 12	1.67, 1.67, 1.25	15

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