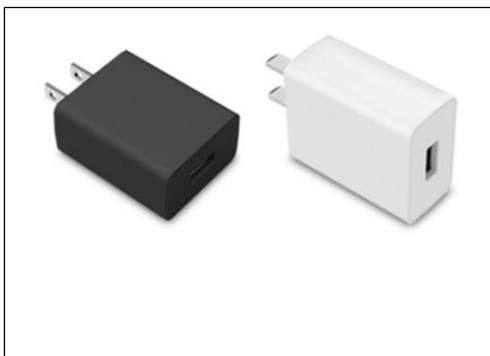




10W USB Type Adapter

AQ10x-050A-H

● 5V/2A ● Fixed plug ● DoE 6, CoC V5 Tier 2



The ultra-compact and light weight AQ10x-050A-H, 5V/2A USB adaptor series is the latest offering from a world leader in charging adapter technology and manufacturing - Phihong. The new 5V/2A, 10W USB adapters offer full 2A output currents in previous generation 5V/1A case. Not only double the power output and they meet DoE Level VI and CoC V5 tier 2 efficiency requirements. They offer high efficiency at both low and full load, also achieve extremely low no-load input power consumption with built-in OVP, OCP, SCP and OTP. This 10W USB adapter is designed to provide fast and efficient charging solutions for cell phones or tablets at home, office, or on the road.

Features :

Efficiency	DoE Level VI and CoC V tier 2
No Load Input Power	$\leq 75\text{mW}$ @ 230VAC input
Protection	OVP, OCP, SCP, OTP
Isolation	Primary to secondary, 3000Vac, 10mA for 1Min
Insulation	Primary to secondary 10M Ω , 500Vdc 1 Min
OVP	$\leq 8.0\text{V}$.
OCP	$\leq 3\text{A}$, Auto recovery
SCP	Auto recovery
Average Efficiency	79% min @115Vac/60Hz, 230Vac/50Hz
Eff. @ 10% output	>75% (spec 69.73%) at 115Vac/230Vac
AC Plug	US, EU

Electrical Specifications :

Input Voltage	100~240Vac (90~264Vac min/max)
Frequency	50/60Hz Nom (47~63Hz min/max)
Input Current	0.28A max @ 115Vac; 0.16A max @ 230Vac
Output Voltage	5.25V (5V~5.5V)
Output Current	2.0A
Maximum Output Power	11W
Output Ripple & Noise	150mVp-p
Earth Leakage Current	20uA Max.
Over-shoot	6V max (0A/2A)
Hold-up Time	6ms min @ 115Vac/230Vac, full load
Turn-On Delay Time	3s max @ 90V/60Hz
Rise Time	50ms max @ 115Vac/60Hz

Environmental Specifications :

Operating Temperature	0°C ~ +45°C
Storage Temperature	-20°C ~ +70°C
Humidity, Operation	90% RH max
Humidity, Storage	90% RH max
MTBF (MIL-HDBK-217F)	>50K hrs @ 240Vac, rated load, 25°C

Safety and Compliance :

Safety Certifications	UL/CUL/CE/CB/BSMI/PSE
EMI Requirement	FCC class B, EN55022 class B
Immunity requirement:	
ESD test	EN 61000-4-2, Contact:±8KV, Air:±15KV
RS	EN 61000-4-3, 3V/m
EFT test	EN 61000-4-4, 1KV
DIP test	EN 61000-4-11, Level 3
Surge test	EN 61000-4-5, Line to Line: 1KV Line or Neutral to PE: 2KV



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- phsales@phihong.com.tw



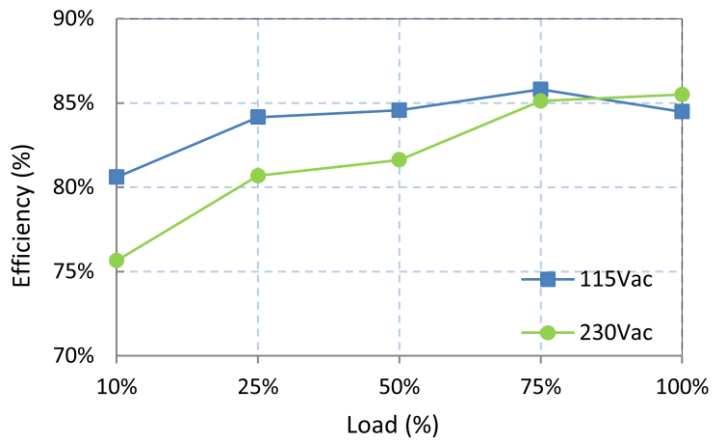
10W USB Type Adapter

AQ10x-050A-H

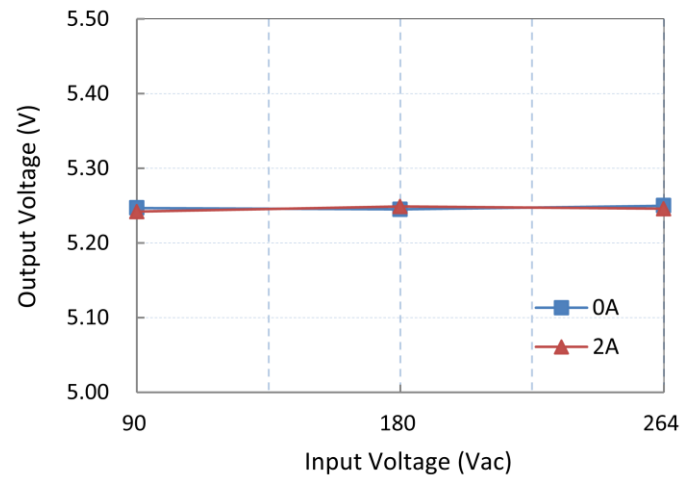
● 5V/2A ● Fixed plug ● DoE 6, CoC V5 Tier 2



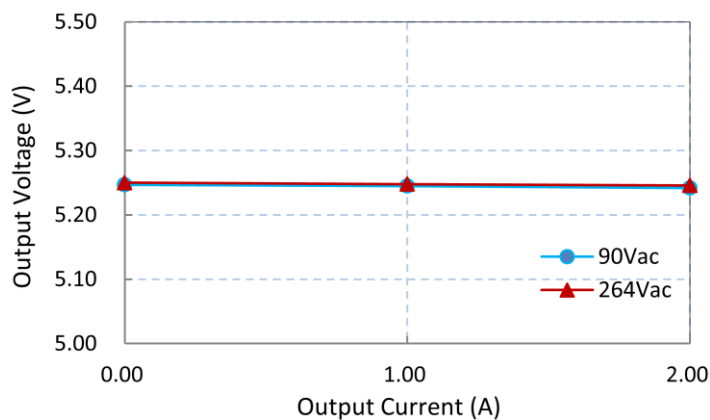
Efficiency



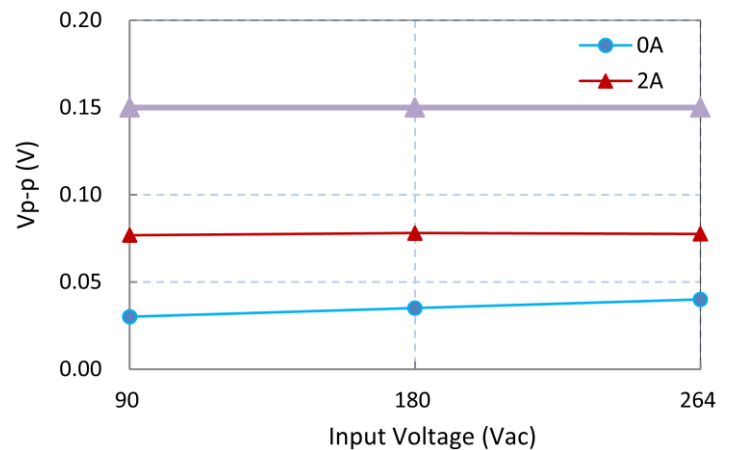
Line Regulation



Load Regulation



Noise & Ripple



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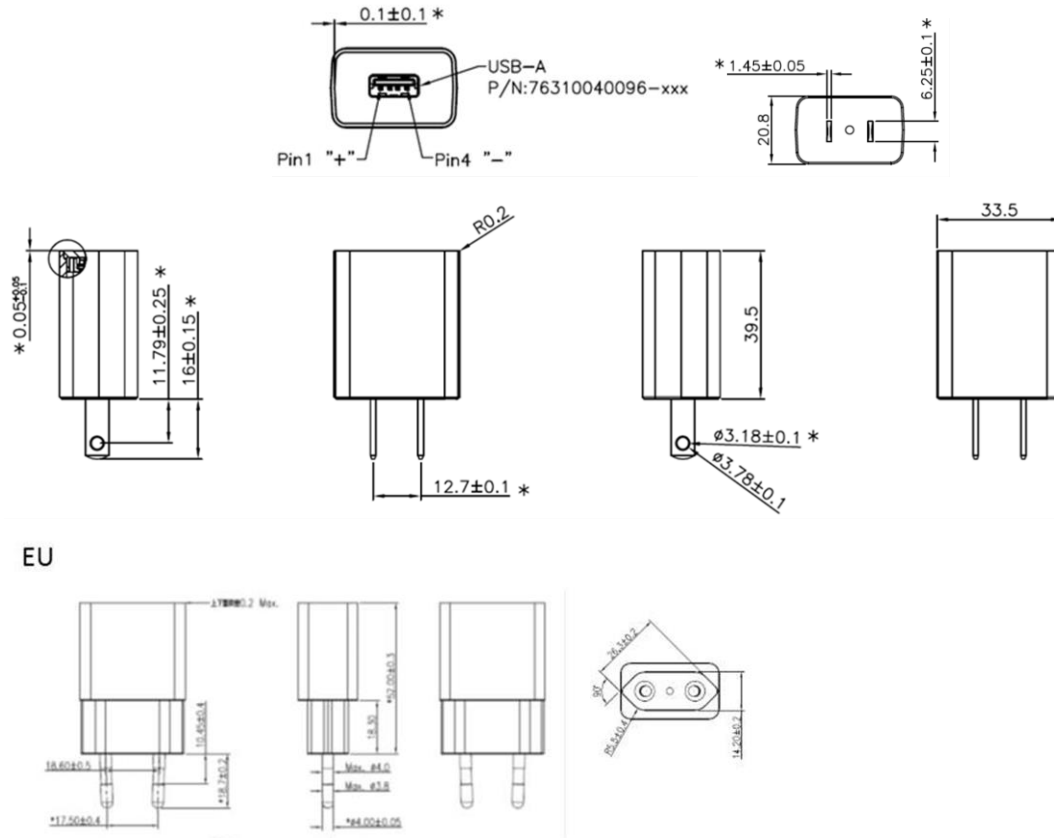
10W USB Type Adapter

AQ10x-050A-H

● 5V/2A ● Fixed plug ● DoE 6, CoC V5 Tier 2



Dimensions: mm



Model Selections

Model Selections

Model Number	Plug Type	Case Color	Output Voltage (Vdc)	Output Current (A)	Max. Output Power (W)
AQ10A-050A-H	US	Black	5.25 (5.0~5.5)	2	11
AQ10E-050A-H	EU	White	5.25 (5.0~5.5)	2	11

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