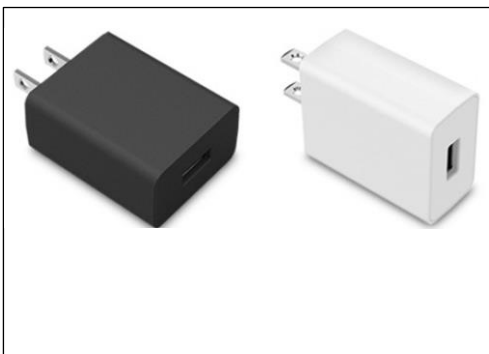




10W USB Type Adapter

PSAF10X-050Q-H; PSAF10X-050QW-H

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



The PSAF10x-050Q-H, 5V/2A USB adaptor series is the latest offering from a world leader in charging adapter technology and manufacturing - Phihong Technology. Phihong 5V/2A USB adapters offer full 2A output currents and meet DoE Level VI and CoC V5 tier 2 efficiency requirements to achieve both extremely low no-load input power consumption and high efficiency. They all have built-in OVP, OCP, SCP and OTP. This 10W USB adapter is designed ultra-compact and light weight 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 V5 tier 2
No Load Input Power	$\leq 75\text{mW}$ @ 230VAC input
Protection	OVP, OCP, SCP, OTP
Insulation Resistance	10M Ω @ 500Vdc 1 min.
Dielectric Withstand Voltage	Primary to secondary, 3000Vac, 1 minute
OVP	Output voltage shall not exceed 8.0V.
OCP, SCP	Auto recovery, 3A max.
OTP	Auto recovery
Efficiency	>79% (@2A and 4-pt average)
Efficiency @ 10% output	>79% @ 115V, >75.7% @ 230V (69.73% spec)
AC Plug	US, EU, UK, Korea, Australia

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	5V \pm 5%
Output Current	2A (2A~2.4A @ 3.5V~4.75V, CV mode)
Max Output Power	10W
Output Ripple & Noise	150mVp-p
Earth Leakage Current	20uA @ 264Vac/50Hz
AC Inrush Current	60A max at 25°C and 230Vac
Over-shoot	6V max (0A/2A)
Hold-up Time	13ms typ @ 115Vac/60Hz and rated load
Turn-On Delay Time	<3s at 90V/60Hz
Rise/Fall Time	<50ms at 115Vac/60Hz

Environmental Specifications :

Operating Temperature	0°C ~ +40°C
Storage Temperature	-20°C ~ +70°C
Humidity, Operation	10~90% RH
Humidity, Storage	5~90% RH
MTBF (MIL-HDBK-217F)	50K hrs min. at 240Vac, rated load, 25°C

Safety and Compliance :

Safety Requirement	UL/CUL/CE/CB/BSMI/PSE/NRCan
EMI Requirement	EN55022 Class B & FCC Class B
Immunity requirement:	
ESD test	EN 61000-4-2. Contact: $\pm 8\text{kV}$, Air: $\pm 15\text{kV}$
RS test	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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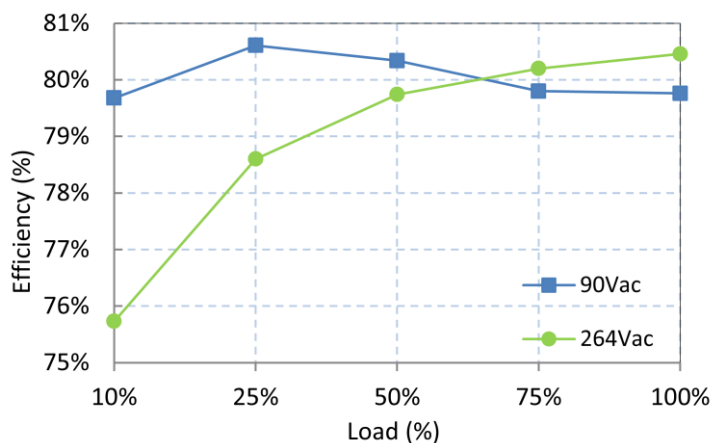
10W USB Type Adapter

PSAF10X-050Q-H; PSAF10X-050QW-H

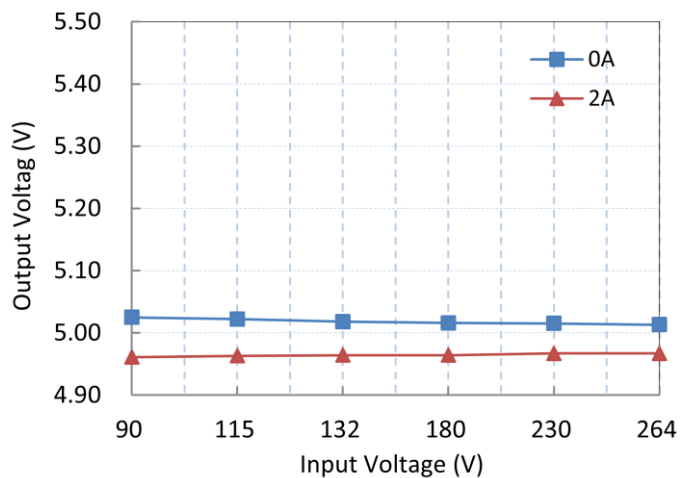
● 5V/2A ● Fixed plug ● DoE 6, CoC V5 Tier 2



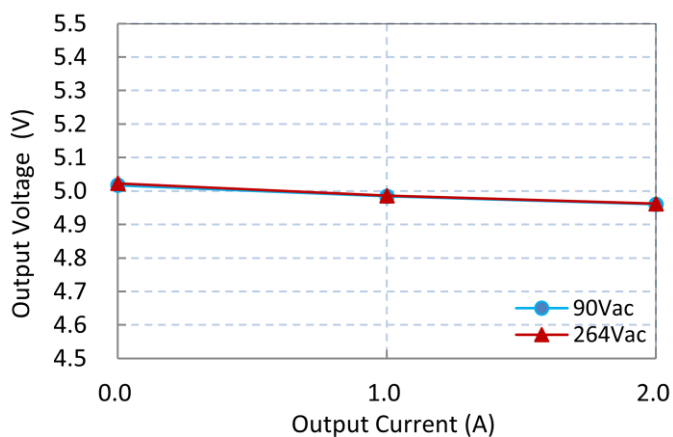
Efficiency



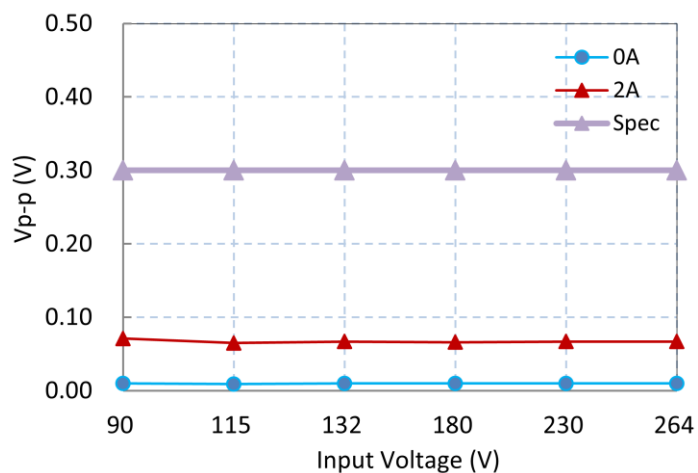
Line Regulation



Load Regulation



Noise & Ripple



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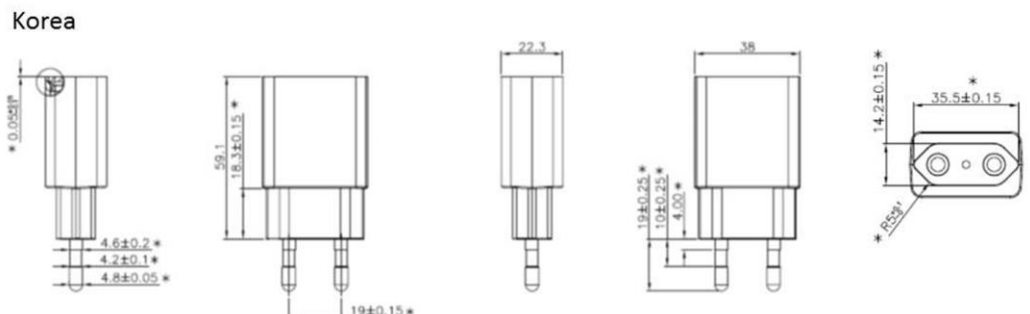
10W USB Type Adapter

PSAF10X-050Q-H; PSAF10X-050QW-H

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



Dimensions: mm



Model Selections:

Model Selections					
Model Number	Plug Type	Case Color	Output Current (A ±5%)	Output Voltage (Vdc)	Max. Output Power (W)
PSAF10A-050Q-H	US	Black	2	5	10
PSAF10E-050Q-H	EU	Black	2	5	10
PSAF10K-050Q-H	UK	Black	2	5	10
PSAF10S-050Q-H	Australia	Black	2	5	10
PSAF10H-050QW-H	Korea	White	2	5	10

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