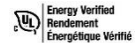




# 10W F-Series Interchangeable Plug Adapter Series



## Features

- Folding Blades
- 15mm Thick with Blades Folded
- Constant Current for Battery Charging
- US DoE Level VI Efficiency Compliance
- Ecodesign/ErP Lot 7 (EU) 2019/1782 Compliance
- Interchangeable Clips (sold separately)

## Applications

- Tablets
- Personal Electronics
- Networking Equipment
- Peripherals



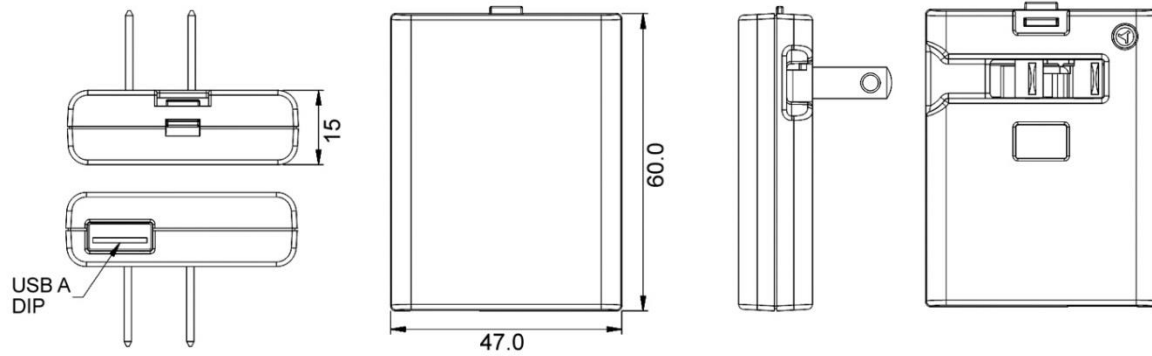
# PSA10F Specifications<sup>1</sup>

Model		PSA10F-050Q-R	PSA10F-050Q(D)-R <sup>2</sup>
Output	DC Output Voltage	5.0V	
	Max Current	2.0A	
	Output Power	10.0W	
	Regulation	± 5%	
	Ripple & Noise P-P(max) <sup>3</sup>	200mV	
Input	AC Input Voltage Range	90 to 264VAC	
	AC Input Frequency	47 to 63Hz	
	Input Current	0.3A RMS max @120VAC, 0.15A RMS max @240VAC	
	Inrush Current	60A at 240VAC	
	No Load Power Consumption at 115VAC Input	0.062W	0.066W
	No Load Power Consumption at 230VAC Input	0.074W	0.083W
	115VAC Average Efficiency <sup>4</sup>	80.54%	80.87%
	230VAC Average Efficiency <sup>4</sup>	80.09%	80.05%
	230VAC 10% Load Efficiency <sup>4</sup>	72.15%	70.84%
	Leakage Current	100uA max at 240VAC	
Protection	Over-Voltage	6.3VDC max. Auto-restart	
	Short Circuit	Must withstand continuous short circuit	
Environmental	Operating Temperature	0°C to +40°C	
	Non-Operating Temperature	-40° to +85°C	
	Operating Humidity	10 to +90%	
Safety Approvals and EMC	Dielectric Withstand (HI-POT)	Primary to Secondary: 3000VAC for 1min, 10mA	
	Insulation Resistance	DC 500V, >7M ohm	
	Standards	cULus 62368-1, IEC 62368-1, PSB	
	EMI Emissions	FCC Part 15 Class B, CAN ICES-003(B)/NMB-003(B), EN 55032/CISPR 32 Class B Conducted and Radiated	
	Harmonic Current Emissions	IEC 61000-3-2	
	Voltage Fluctuations & Flicker	IEC 61000-3-3	
	Immunity	EN 55024/CISPR 24: IEC 61000-4-2 (+/- 8kV air, +/- 4kV contact), IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5 (+/- 1kV), IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11	
Mechanical	Dimensions (L x W x H)	60.0mm (2.36in) x 47.0mm (1.85in) x 15.0mm (0.59in)	
	Weight	38.5g	
	AC Input	US fixed blade folding prong	
	DC Output Connector	USB-A	

Model		PSA10F-050Q(S)-R <sup>5</sup>
Output	DC Output Voltage	5.0V
	Max Current	2.0A
	Output Power	10.0W
	Regulation	± 5%
	Ripple & Noise P-P(max) <sup>3</sup>	200mV
Input	AC Input Voltage Range	90 to 264VAC
	AC Input Frequency	47 to 63Hz
	Input Current	0.3A RMS max @120VAC, 0.15A RMS max @240VAC
	Inrush Current	60A at 240VAC
	No Load Power Consumption at 115VAC Input	0.064W
	No Load Power Consumption at 230VAC Input	0.076W
	115VAC Average Efficiency <sup>4</sup>	80.94%
	230VAC Average Efficiency <sup>4</sup>	80.21%
	230VAC 10% Load Efficiency <sup>4</sup>	70.89%
	Leakage Current	100uA max at 240VAC
Protection	Over-Voltage	6.3VDC max. Auto-restart
	Short Circuit	Must withstand continuous short circuit
Environmental	Operating Temperature	0°C to +40°C
	Non-Operating Temperature	-40° to +85°C
	Operating Humidity	10 to +90%
Safety Approvals and EMC	Dielectric Withstand (HI-POT)	Primary to Secondary: 3000VAC for 1min, 10mA
	Insulation Resistance	DC 500V, >7M ohm
	Standards	cULus 62368-1, IEC 62368-1, PSB
	EMI Emissions	FCC Part 15 Class B, CAN ICES-003(B)/NMB-003(B), EN 55032/CISPR 32 Class B Conducted and Radiated
	Harmonic Current Emissions	IEC 61000-3-2
	Voltage Fluctuations & Flicker	IEC 61000-3-3
	Immunity	EN 55024/CISPR 24: IEC 61000-4-2 (+/- 8kV air, +/- 4kV contact), IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5 (+/- 1kV), IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11
Mechanical	Dimensions (L x W x H)	60.0mm (2.36in) x 47.0mm (1.85in) x 15.0mm (0.59in)
	Weight	38.5g
	AC Input	US fixed blade folding prong
	DC Output Connector	USB-A
Notes	<ol style="list-style-type: none"> <li>The specifications defined are at ambient temperature of 25°C, unless otherwise specified.</li> <li>D model output to compensate for voltage drop in the USB cable by 400mV at full load</li> <li>20MHz bandwidth frequency oscilloscope, add a 0.1µF multilayer Cap. and Low ESR Electrolytic Cap. (10µF) at output connector terminals (nominal line voltage, full load).</li> <li>Efficiency is measured after 30 minutes burn-in.</li> <li>Special order item. Minimum order quantity applies. Model output to compensate for voltage drop in the USB cable by 400mV and has termination resistors suitable for Apple products* *Apple is a trademark of Apple Corporation</li> </ol>	



# PSA10F-050Q Outline Drawing






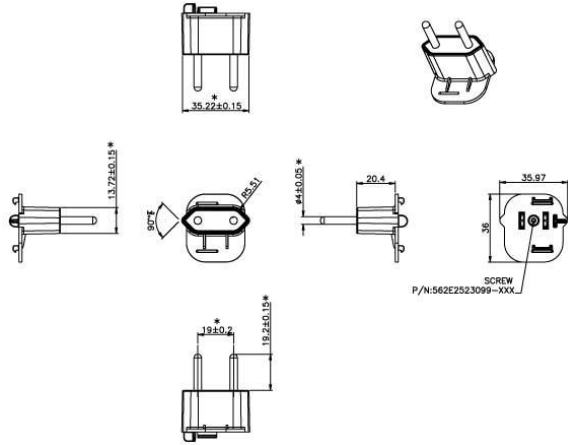

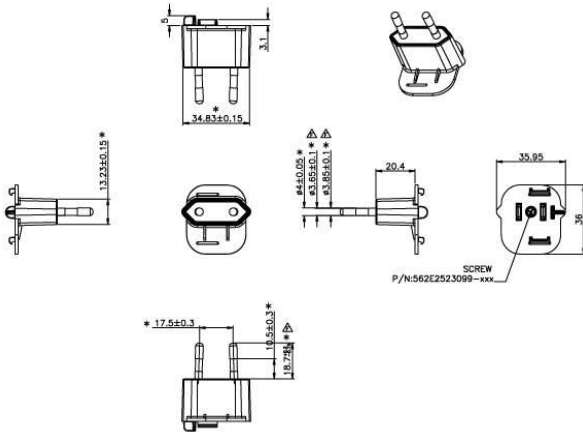

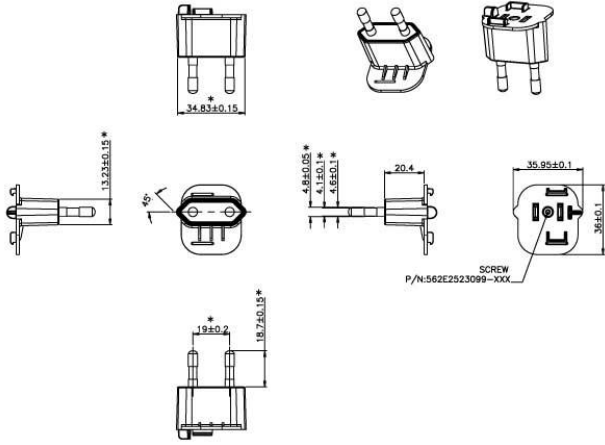
**Supplier's Declaration of Conformity**  
**47 CFR § 2.1077 Compliance Information**


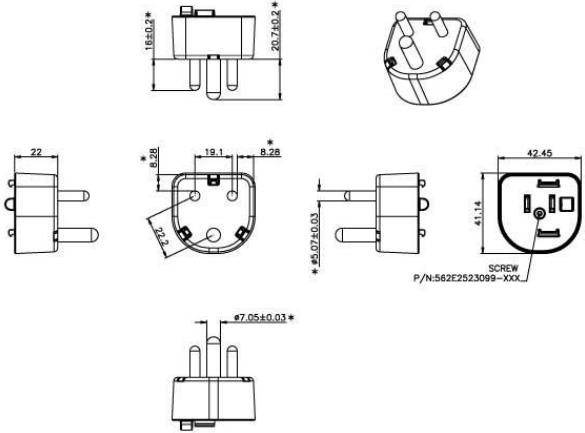

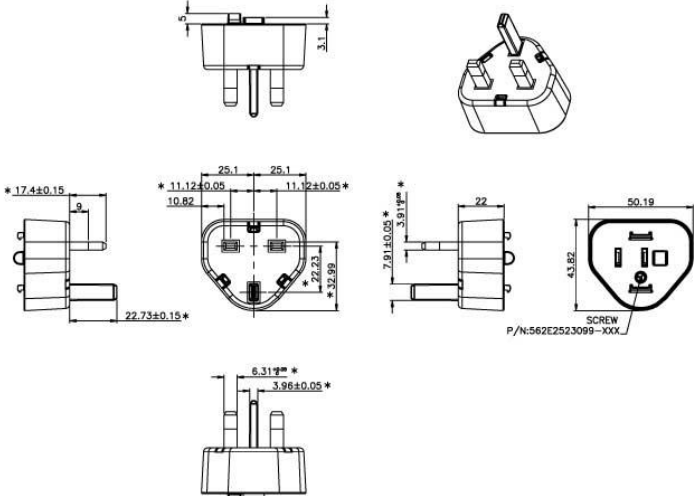

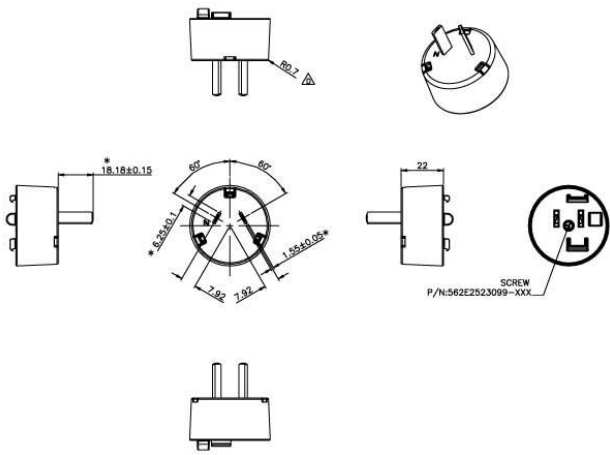
Phihong USA Corporation  
47800 Fremont Boulevard  
Fremont, CA 94538  
Telephone: (510) 445-0100  
[www.phihong.com](http://www.phihong.com)

*This device complies with/The devices in this product series comply with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.*



# AC Input Clips - Sold Separately

FPB-H – BRAZIL CLIP	Dimension Drawing Unit: mm
	
FPE-H – EUROPE CLIP	Dimension Drawing Unit: mm
	
FPH-H – KOREA CLIP	Dimension Drawing Unit: mm
	

<p>FPI-H – INDIA CLIP</p> 	<p>Dimension Drawing Unit: mm</p> 
<p>FPK-H – UK CLIP</p> 	<p>Dimension Drawing Unit: mm</p> 
<p>FPN-H – ARGENTINA CLIP</p> 	<p>Dimension Drawing Unit: mm</p> 

FPBAG1-H	EU & UK CLIP
	

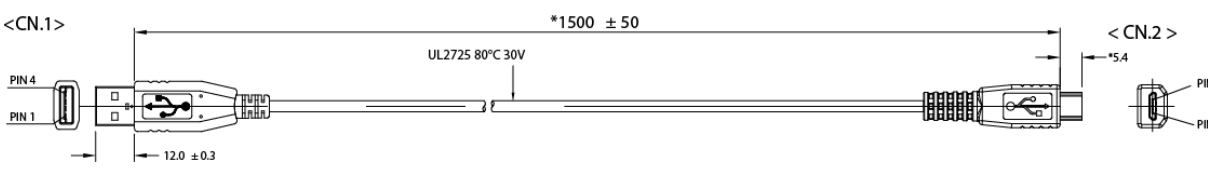
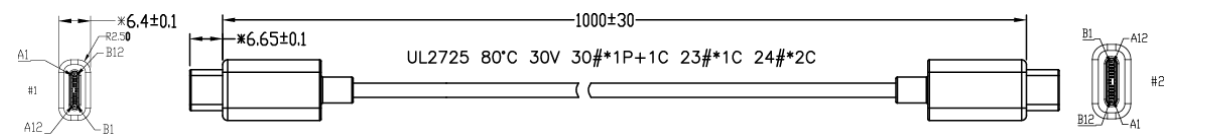
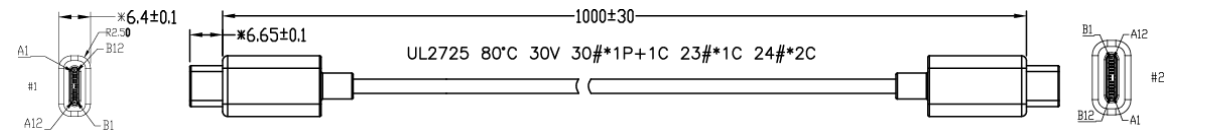




# USB Cables – Sold Separately

## Unit: mm

Part no: IP-USB1(C10)S	Desc: USB-A to Micro-B – 1 Meter – Black
Part no: IPUSB1CS	Desc: USB to Mini-B – 1.5 Meter – Black
Part no: IPUSB1MS	Desc: USB-A to Micro-B – 1.5 Meter – Black
Part no: IPUSB1M5LD	Desc: USB-A to Micro-B – 24AWG – Low Drop – 1.5 Meter – Black
Part no: IPUSB1P5	Desc: USB-A to Micro-B – 1 Meter – 24AWG – Black
Part no: IPUSB1P5W	Desc: USB-A to Micro-B – 1 Meter – 24AWG – White

Part no: IPUSB1MSW	Desc: USB-A to Micro-B – 1.5 Meter – White
	
Part no: UES-1001A160	Desc: Low Drop Type-C USB Cable – 1 Meter – 23AWG on Power – 30AWG on Data - Black
	
Part no: UES-1003A160	Desc: Low Drop Type-C USB Cable - 1 Meter – 23AWG on Power – 30AWG on Data - White
	

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Phihong:

[PSA10F-050Q\(D\)-R](#) [PSA10F-050Q\(S\)-R](#) [PSA10F-050Q-R](#) [PSA10FC-050Q](#)