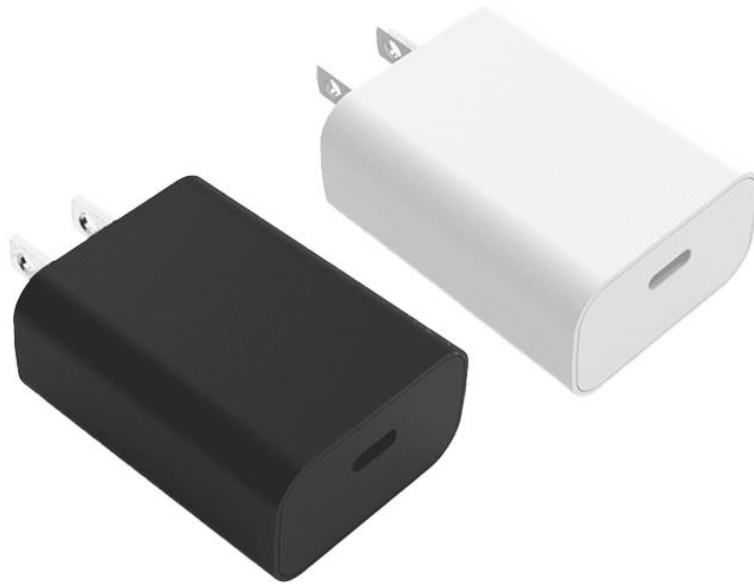


AQ15A-050B



15W Fixed Blade USB Type-C Charger (2nd Gen)



Features

- Fixed Blade for US
- USB Type-C Port
- US DoE Level VI Compliance
- Voltage Drop Compensation
- Class B EMI
- OVP and Short Circuit Protection
- Operation up to 5,000 Meters

Applications

- Mobile Devices
- Portable Devices
- Networking Devices

Description

The single 5VDC output AQ15A-050B AC/DC USB Type-C adapter features a USB C port and provides an output of 15 watts. The highly efficient power supply bears fixed input prongs for use in the USA and Canada and complies with not only DoE Level VI efficiency requirements but also the more demanding Level VII efficiency and no-load limits proposed by the US Department of Energy in February 2023.

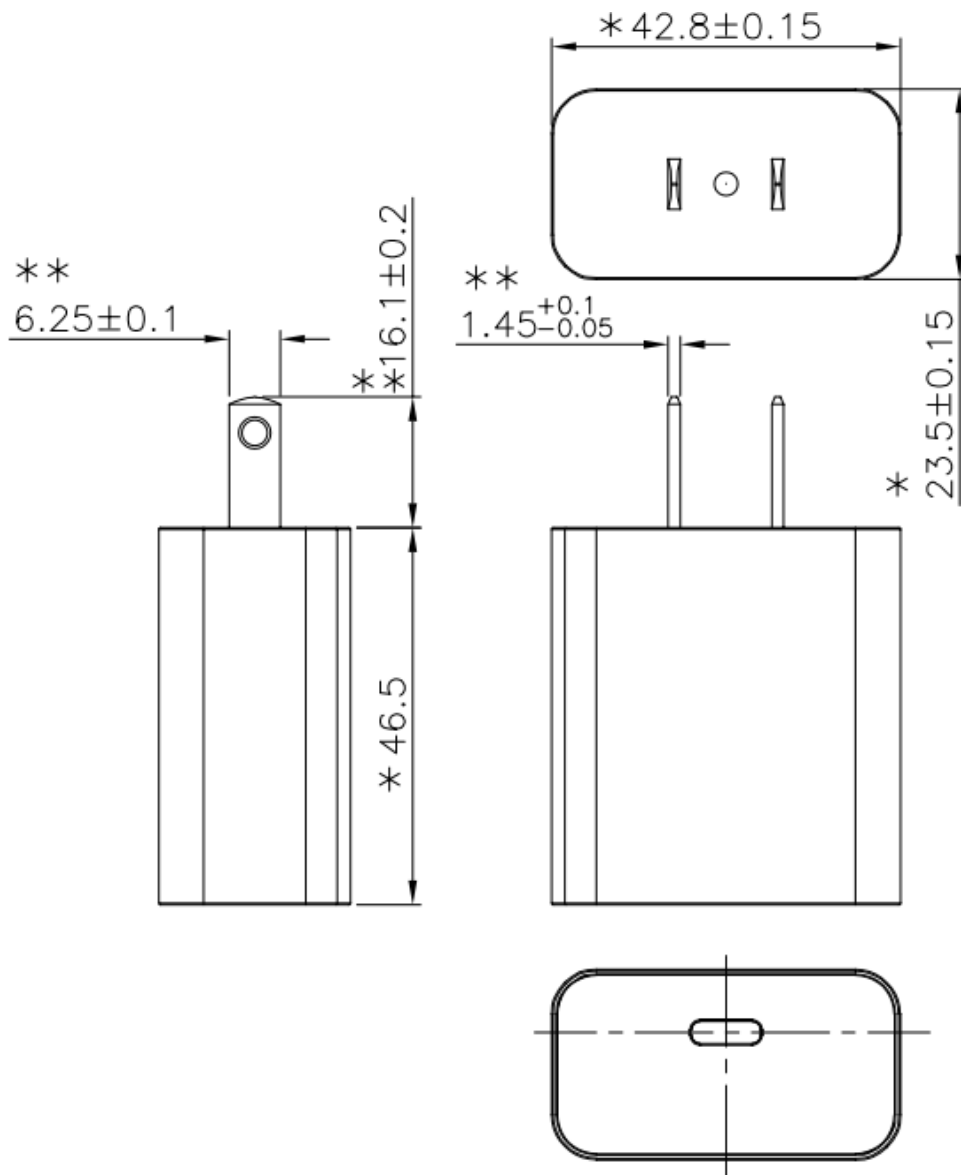
Approved for operation to +40 degrees C without derating and up to 5,000 meters altitude, the AQ15A-050B bears cULus compliance approval and meets $\pm 8\text{kV}$ contact discharge and $\pm 15\text{kV}$ air discharge ESD levels and FCC and CAN ICES-003 Class B emissions limits. The cost-effective, high-performance adapter is suitable for use in a wide range of consumer and portable applications.

Specifications¹

Model		AQ15A-050B-H	AQ15A-050BW-H ²
Output	DC Output Voltage	5.0V	
	Max Current	3.0A	
	Output Power	15.0W	
	Regulation	± 5%	
	Ripple & Noise P-P(max) ³	150mV	
Input	AC Input Voltage Range	90 to 264VAC	
	AC Input Frequency	47 to 63Hz	
	Input Current	0.5A (RMS) at full load	
	Inrush Current	80A max at 264Vac, cold start	
	No Load Power Consumption	75mW max. at 115Vac/60Hz, 230Vac/50Hz	
	Average Efficiency ⁴	81.84% min. at 115Vac/60Hz, 230Vac/50Hz	
	Leakage Current	<0.1mA @ 264Vac	
Protections	Over-Voltage	< 7.5V	
	Short Circuit	Auto recover with no damage	
	Over-Current	< 3.6A, auto-recovery	
Environmental	Operating Temperature	0°C to +40°C	
	Storage Temperature	-25 to +60°C	
	Operating Humidity	10 to 90% RH	
Safety Approvals and EMC	Dielectric Withstand (HI-POT)	Primary to Secondary: ≤ 5mA @ 3.6K Vac for 1 min.	
	Insulation Resistance	Primary to Secondary: ≥ 2M ohm @ 500Vdc	
	Standards	cULus 62368-1	
	EMI Emissions	FCC Part 15 Class B Conducted and Radiated	
Mechanical	Dimensions (L x W x H)	46.5mm (1.83in) x 42.8mm (1.69in) x 23.5mm (0.93in)	
	DC Output Connector	USB-C	
	Case Color	Black	White
Notes	<ol style="list-style-type: none"> The specifications defined are at ambient temperature of 25°C, unless otherwise specified. Special order item. Minimum order quantity applies. 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). Efficiency is measured after 30 minutes burn-in. Tested with Huaian Jen Vei Electronic Company., Ltd., USB C-to-C cable part number 1U-01560WA measuring 1,000mm with 30AWGx2C + 30AWGx2C + 22AWGx2C (2E+F+A+S). 		

AQ15A-050B

Outline Drawing (mm)





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

MODELS

AQ15A-050B-H, AQ15A-050BW-H

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

This device complies 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.

USB Cables – Sold Separately



Outline Drawing (mm)

<p>Part no: UES-1001A160</p>	<p>Desc: Low Drop Type-C USB Cable – 1 Meter – 23AWG on Power – 30AWG on Data - Black</p>
<p>Part no: UES-1003A160</p>	<p>Desc: Low Drop Type-C USB Cable - 1 Meter – 23AWG on Power – 30AWG on Data - White</p>