



27W USB Type-C Adapter with Power Delivery 3.0



Features

- USB-C PD 3.0 Certified
- DOE Level VI Compliance
- Programmable Power Source¹
- Small Form Factor/High Power Density
- Class B EMI

Applications

- Mobile Phone
- Tablet
- Networking Devices
- Monitor

Safety Approvals

- UL/cUL 60950-1
- UL/cUL 62368-1

Mechanical Characteristics

- Length: 54mm (2.13in)
- Width: 46mm (1.81in)
- Height: 23mm (0.91in)

Output Specifications

Model	DC Output Voltage	Load		Ripple ² P-P(max.)	Regulation Line & Load
		Min.	Max.		
AQ27A-59A-H ¹	5V/9V	0A	3A/3A	200mV	±5%
AQ27A-59CFA-H	5V/9V/12V/15V	0A	3A/3A/2.25A/1.8A	200mV	±5%

Notes:

1. Applies to AQ27A-59A-H model only
2. Measures at the end of 100m ohm cable. Measurements shall be made with an oscilloscope with 20MHz Bandwidth. Outputs should be bypassed at a connector with a 0.1uF ceramic capacitor and a 10uF electrolytic capacitor (Low ESR).

Input:**AC Input Voltage Rating**

100 to 240V AC

AC Input Voltage Range

90 to 264V AC

AC Input Current

0.8A(RMS) max at 100V AC input

Leakage Current

65uA max at 250V AC/50Hz

Input Power Saving

<75mW at no load at 230VAC

Output:**Efficiency²**

DOE Level VI

Hold-up Time

8.3mS min at 120VAC/60Hz

Environmental:**Temperature**

Operation	0°C to +40°C
Non-operation	-30°C to +85°C
Relative Humidity	10 to 90%

Emissions

Complies with FCC part 15, Class B

Complies with EN55032, Class B

Immunity

ESD:	EN61000-4-2
RS:	EN61000-4-3
EFT:	EN61000-4-4
Surge:	EN61000-4-5
CS :	EN61000-4-6
MS :	EN61000-4-8
Dip:	EN61000-4-11

Dielectric Withstand (Hi-pot) Test

Pri. to Sec. 3000VAC 3mA for 1 Minute

Insulation Resistance

Pri to Sec. >100M ohm at 500VDC

FEATURES:**Over-Voltage Protection**

Auto-recovery. 130% max

Over-Current ProtectionAuto-recovery. Trip point is less than 130% of I_o**Over-Temperature Protection**

Latch off function.

Short-Circuit Protection

Auto-recovery, the output can be shorted permanently without damage.

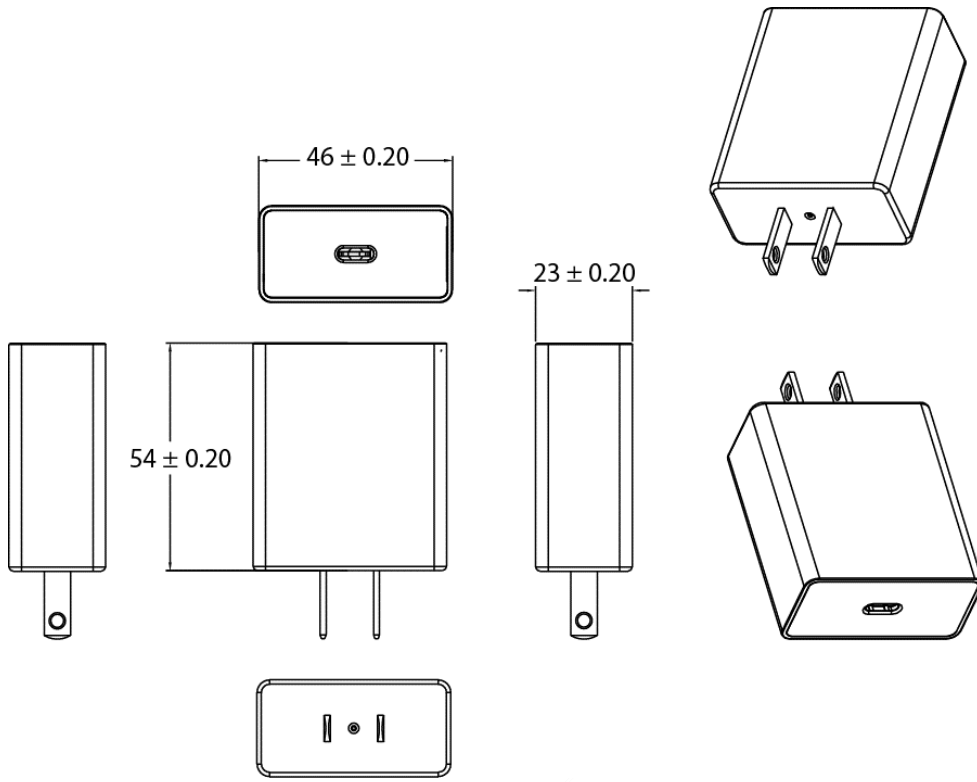
DC Output Connector

USB Type-C receptacle

Notes:

1. The characteristics defined are at ambient temperature of 25°C unless otherwise specified
2. Efficiency is measured after 30 minutes burn-in

Dimension Diagram Unit: mm



USB Cables – Sold Separately

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



**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

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.

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