



27W USB Type-C Adapter with Power Delivery 3.0



Energy Verified
Rendement
Énergétique Vérifié



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.

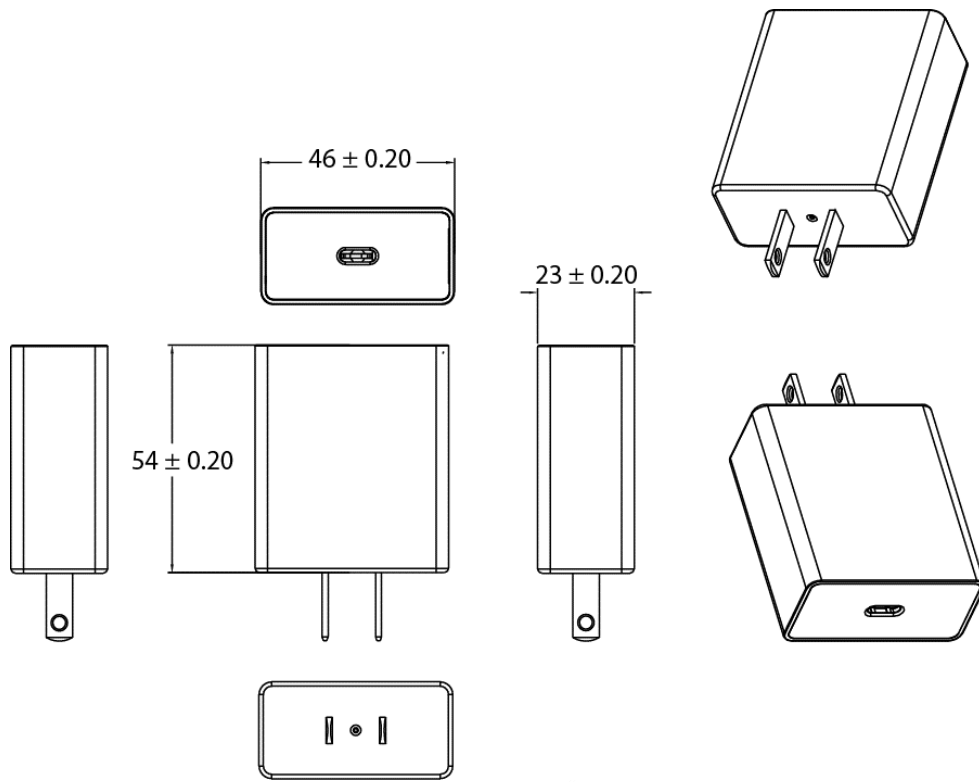
DC Output Connector

USB Type-C receptacle

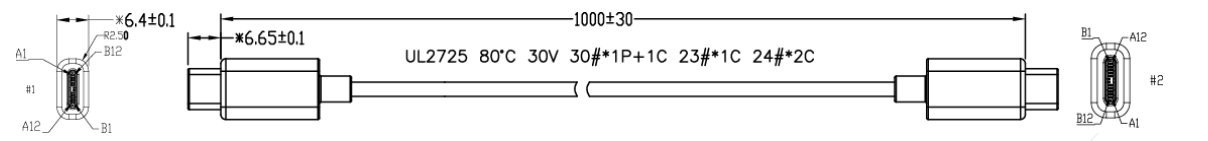
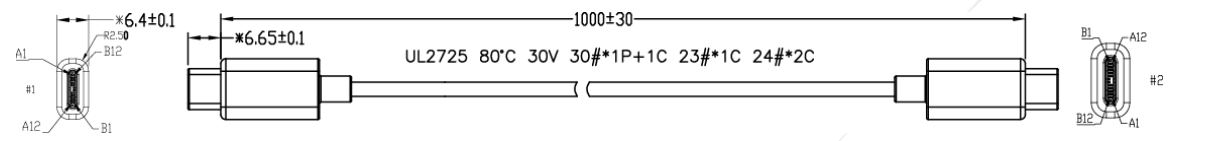
Notes:

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.

Mouser Electronics

Authorized Distributor

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

Phihong:

[AQ27A-59A-H](#) [AQ27A-59CFA-H](#) [AQ27E-59A-H](#) [AQ27E-59CFA-H](#)