



## 27W USB Type-C Adapter with Power Delivery 3.0



### Features

- USB-C PD 3.0 Certified
- DOE Level VI Compliance
- Programmable Power Source<sup>1</sup>
- 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 <sup>2</sup> P-P(max.)	Regulation Line & Load
		Min.	Max.		
AQ27A-59A-H <sup>1</sup>	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**

&lt;75mW at no load at 230VAC

**Output:****Efficiency<sup>2</sup>**

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. &gt;100M ohm at 500VDC

**FEATURES:****Over-Voltage Protection**

Auto-recovery. 130% max

**Over-Current Protection**

Auto-recovery. Trip point is less than 130% of Io

**Over-Temperature Protection**

Latch off function.

**Short-Circuit Protection**

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

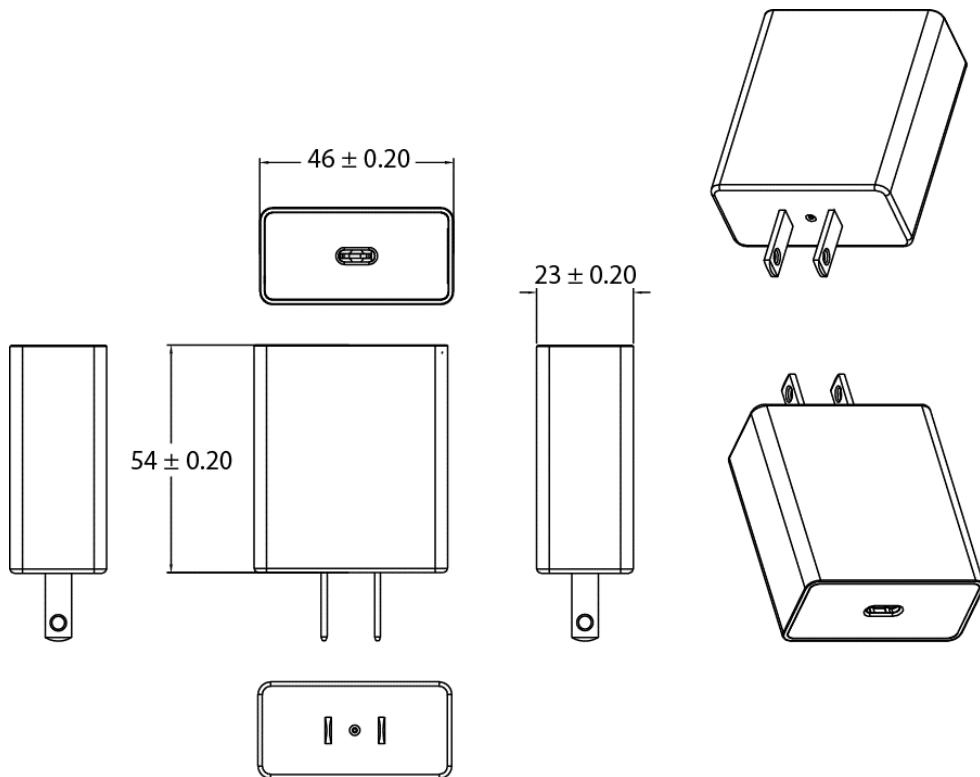
**DC Output Connector**

USB Type-C receptacle

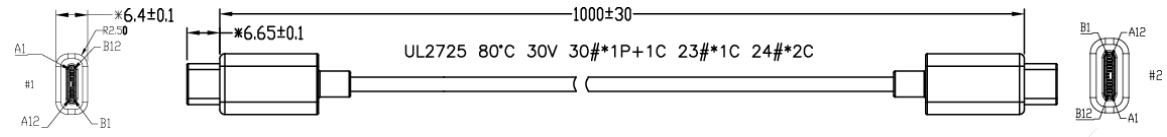
## Notes:

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

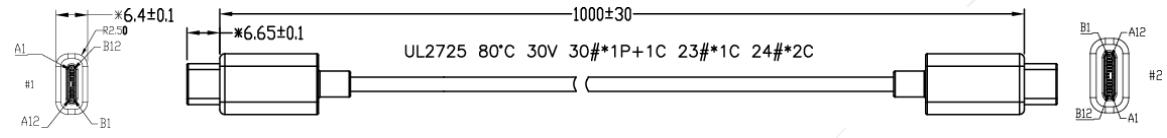
Dimension Diagram Unit: mm



## 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**

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*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

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