

## 18W USB Type-C with Power Delivery Adapter



### Features

- USB-C PD 3.0 Certified
- DOE Level VI
- 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: 52mm (2.05in)
- Width: 40mm (1.57in)
- Height: 23.3mm (0.92in)
- Weight: 55g (1.94oz) Reference

### Output Specifications

Model	DC Output Voltage	Load		Ripple <sup>1</sup> P-P (max.)	Regulation Line & Load
		Min.	Max.		
AQ18A-59A-H <sup>2</sup>	5V/9V	0A	3A/2A	200mV	±5%
AQ18A-59CFA-H	5V/9V/12V/15V	0A	3A/2A/1.5A/1.2A	200mV	±5%

Notes:

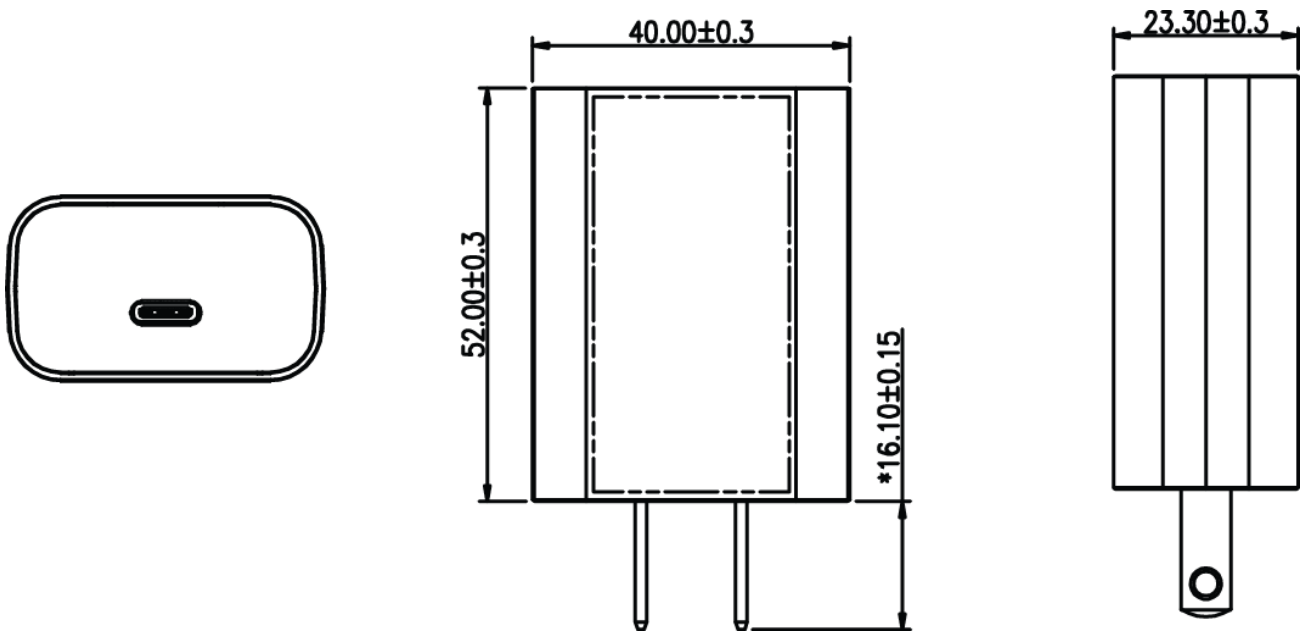
1. Measurement made with an oscilloscope with 20MHz Bandwidth. Output bypassed at connector with a 0.1uF ceramic capacitor and a 10uF electrolytic capacitor (Low ESR)
2. Special order items. Minimum order quantity applies.

**AQ18A Series Characteristics<sup>1</sup>****Input:****AC Input Voltage Rating**  
100 to 240V AC**AC Input Voltage Range**  
90 to 264V AC**AC Input Current**  
0.5A(RMS) max at 100V AC input**Leakage Current**  
100uA max**Input Power Saving<sup>2</sup>**  
≤75mW at no load at 230VAC/50Hz**Output:**  
**Efficiency**  
DOE Level VI**Hold-up Time**  
3mS min at 115VAC/60Hz**Environmental:****Temperature**  
Operation 0°C to +40°C  
Non-operation -30°C to +70°C  
Relative Humidity 10 to 90%**Emissions**  
FCC 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**  
6.25V max for 5V; 11.25V max for 9V; 15V max for 12V; 18.75V max for 15V**Over-Current Protection**  
Auto-recovery. 4.05A max for 5Vdc; 2.7A max for 9Vdc; 2.025A max for 12Vdc; 1.62A max for 15Vdc**Over-Temperature Protection**  
Latch off function. Case temperature shall not exceed 95°C**Short-Circuit Protection**  
Auto-recovery**DC Output Connector**  
USB Type-C receptacle

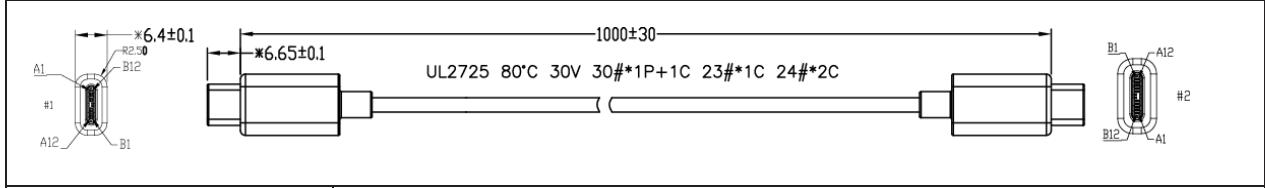
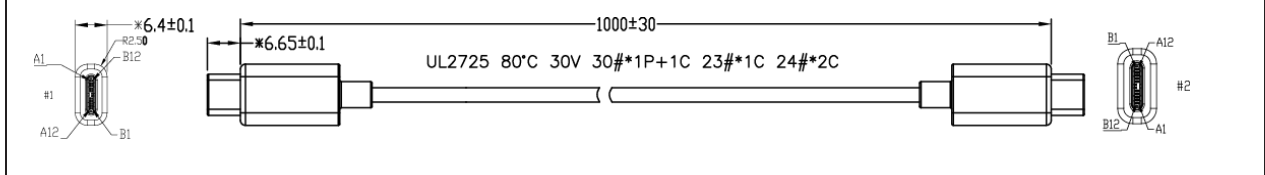
## Notes:

1. The characteristics defined are at ambient temperature of 25°C unless otherwise specified
2. After 15 minutes warm-up

Dimension Diagram Unit: mm



**USB Cables – Sold Separately**

<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>
	

Revised 8/10/2022