

TECHNICAL DATASHEET

18W USB Type-C with Power Delivery Adapter – US



Applications

- Mobile Phone
- Networking Devices
- Tablet
- Monitor

Features

- **USB Type-C 3.0 Certified**
- **Small Form Factor/High Power Density**
- **DOE Level VI**
- **Class B EMI**

Safety Standards



Dimensions

52.0 x 40.0 x 23.3 mm

(2.05 x 1.57 x 0.92 inch)

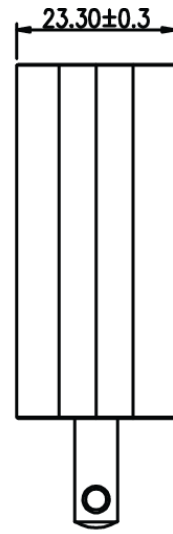
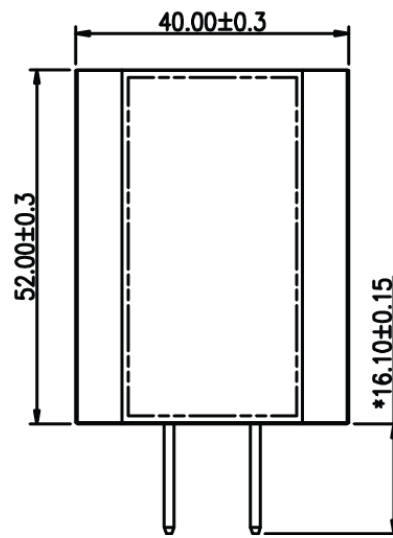
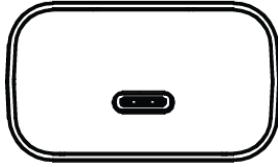
Specifications

AQ18A Specifications¹

Model		AQ18A-59A-H ²	AQ18A-59CFA-H
Output	DC Output Voltage	5.0V/9.0V	5.0V/9.0V/12.0V/15.0V
	Max Current	3.0A/2.0A	3.0A/2.0A/1.5A/1.2A
	Output Power	15W/18W	15.0W/18.0W/18.0W/18.0W
	Regulation Line & Load	± 5%	
	Ripple P-P(max.) ³	200mV	
	Efficiency	DOE Level VI	
	Hold-up Time	3mS min at 115VAC/60Hz	
Input	AC Input Voltage Rating	100 to 240VAC	
	AC Input Voltage Range	90 to 264VAC	
	Input Current	0.5A(RMS) max at 100VAC	
	Efficiency	5V: 81.84%, 9V: 85.45%	5V: 81.84%, 9V: 85.45% 12V: 85.45%, 15V: 85.45%
	Leakage Current	100uA max	
	Input Power Saving ⁴	≤ 75mW @no load at 230VAC/50Hz	
Protection	Over-Voltage	5V: 6.25V max, 9V: 11.25V max, 12V: 15V max, 15V: 18.75V max	
	Over-Current	5V: 4.05A max, 9V: 2.7A max, 12V: 2.025A max, 15V: 1.62A max. Auto recovery	
	Short Circuit	Auto recovery	
	Over Temperature	Latch off function. Case temperature shall not exceed 95°C	
Environmental	Operating Temperature	0°C to +40°C	
	Non-Operating Temperature	-30° to +70°C	
	Operating Humidity	10 to 90%	
Safety Approvals and EMC	Dielectric Withstand (HI-POT)	Primary to Secondary: 3000VAC for 1min, 3mA	
	Insulation Resistance	Primary to Secondary: >100M ohm for 500VDC	
	Standards	UL/cUL 60950-1; UL/cUL 62368-1	
	EMI 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	
Mechanical	Dimensions (L x W x H)	52.0mm (2.05in) x 40.0mm (1.57in) x 23.3mm (0.92in)	
	Weight	55g	
	DC Output Connector	USB Type-C receptacle	
Notes	<ol style="list-style-type: none"> 1. The specifications defined are at ambient temperature of 25°C unless otherwise specified. 2. Special order item. Minimum order quantity applies. 3. 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). 4. After 15 minutes warm-up 		

Outline Drawing

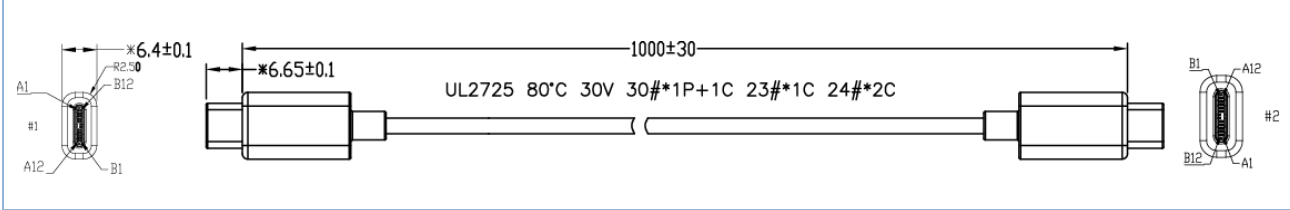
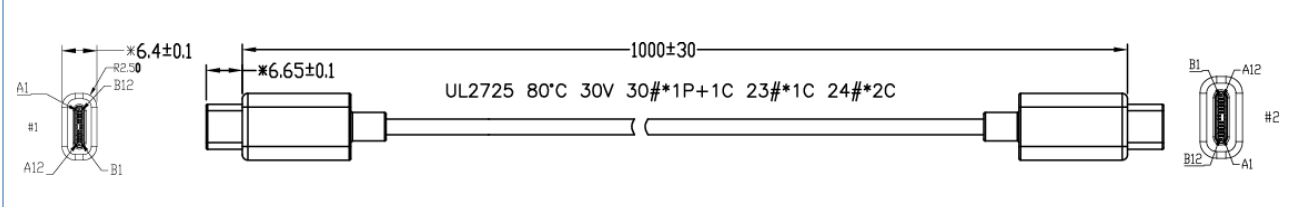
AQ18A Outline Drawing



USB Cables

USB Cables – Sold Separately

Unit: 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>
	

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