



# 27W Fixed Blade USB-C Charger with Power Delivery 3.0 – US



## Features

- USB Type-C
- Power Delivery 3.0 Compliance
- Fixed Blade
- US DoE Level VI Compliance
- Limited Power Source (LPS)
- Class B EMI
- Over-Voltage, Over-Current and Short Circuit Protections

## Applications

- Mobile Phones
- Networking Devices
- Tablets

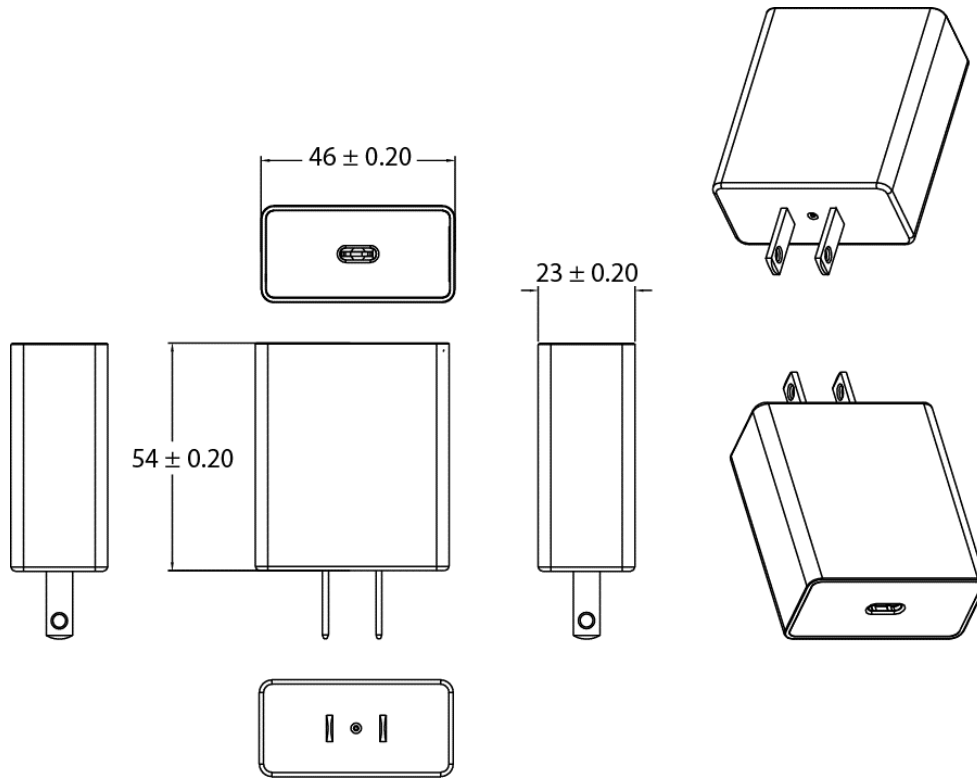


# AQ27A Specifications<sup>1</sup>

Model		AQ27A-59A-H	AQ27A-59CFA-H
Output	DC Output Voltage	5.0V/9.0V	5.0V/9.0V/12.0V/15.0V
	Max Current	3.0A/3.0A	3.0A/3.0A/2.25A/1.8A
	Output Power	18.0W/27.0W	18.0W/27.0W/27.0W/27.0W
	Regulation	± 5%	
	Ripple & Noise P-P(max) <sup>2</sup>	200mV	
Input	AC Input Voltage Range	90 to 264VAC	
	AC Input Frequency	47 to 63Hz	
	Input Current	0.8A (RMS) max at 100VAC	
	No Load Power Consumption at 115VAC Input	≤ 0.075W	≤ 0.075W
	115VAC Average Efficiency <sup>3</sup>	5V ≥ 81.84%, 9V ≥ 87.30%	5V ≥ 81.84%, all other output voltages ≥ 87.30%
	Leakage Current	65uA max at 250VAC 50Hz	
Protections	Over-Voltage	Auto-recover. 130% max	
	Over-Current	Auto-recover. Trip point is less than 130% of Io	
	Short Circuit	Auto-recover	
	Over Temperature	Latch off. No damage.	
Environmental	Operating Temperature	0°C to +40°C	
	Non-Operating Temperature	-30° to +85°C	
	Operating Humidity	10 to 90% RH	
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	cULus 62368-1	
	EMI Emissions	FCC Part 15 Class B Conducted and Radiated	
Mechanical	Dimensions (L x W x H)	54.0mm (2.13in) x 46.0mm (1.81in) x 23.0mm (0.91in)	
	DC Output Connector	USB-C	
Notes	<ol style="list-style-type: none"> <li>The specifications defined are at ambient temperature of 25°C, unless otherwise specified.</li> <li>20MHz bandwidth frequency oscilloscope, add a 0.1µF multilayer Cap. and Low ESR Electrolytic Cap. (10µF) at output connector terminals (nominal line voltage, full load).</li> <li>Efficiency is measured after 30 minutes burn-in.</li> </ol>		



# AQ27A Outline Drawing





**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.*



# USB Cables – Sold Separately

## Unit: mm

Part no: UES-1001A160	Desc: Low Drop Type-C USB Cable – 1 Meter – 23AWG on Power – 30AWG on Data - Black
<p>The technical drawing shows a side view of a USB Type-C cable with a length of <math>1000 \pm 30</math> mm. The cable has a diameter of <math>\phi 6.4 \pm 0.1</math> mm. The connector housing has a diameter of <math>\phi 6.65 \pm 0.1</math> mm. The drawing includes two cross-sectional views of the cable jacket, labeled #1 and #2. Cross-section #1 shows the internal conductors and their positions relative to the cable diameter. Cross-section #2 shows the internal conductors and their positions relative to the cable diameter. The specifications are: UL2725 80°C 30V 30#*1P+1C 23#*1C 24#*2C.</p>	