

TECHNICAL DATASHEET

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



Applications

- Mobile Phone
- Networking Devices
- Tablet
- Monitor

Features

- **USB-C PD 3.0 Certified**
- **Small Form Factor/High Power Density**
- **DOE Level VI**
- **COC Version 5 Tier 2**
- **Class B EMI**
- **Programmable Power Source (Only model AQ27A-59A-H)**

Safety Standards



Dimensions

54.0 x 46.0 x 23.0 mm

(2.13 x 1.81 x 0.91 inch)

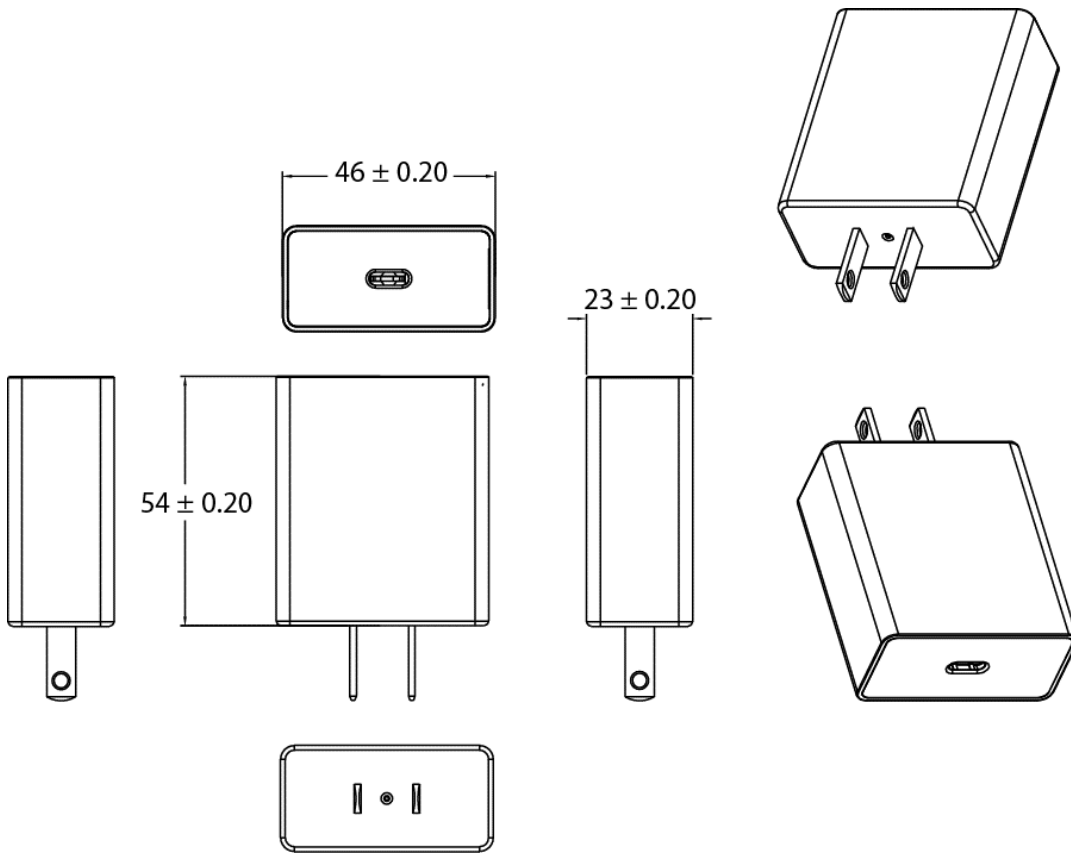
Specifications

AQ27A Specifications¹

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 Line & Load	± 5%	
	Ripple P-P(max.) ²	200mV	
	Efficiency ³	DOE Level VI, COC Version 5 Tier 2	
	Hold-up Time	8.3mS min at 120VAC/60Hz	
Input	AC Input Voltage Rating	100 to 240VAC	
	AC Input Voltage Range	90 to 264VAC	
	Input Current	0.8A (RMS) max at 100VAC	
	Efficiency	5V: 81.84%, 9V: 87.30%	5V: 81.84%, 9V: 87.30% 12V: 87.30%, 15V: 87.30%
	Leakage Current	65uA max at 250V AC/50Hz	
	Power Saving	<75mW at no load at 230VAC	
Protection	Over-Voltage	Auto-recovery. 130% max	
	Over-Current	Auto-recovery. Trip point is less than 130% of I _o	
	Short Circuit	Auto-recovery, the output can be shorted permanently without damage.	
	Over Temperature	Latch off function.	
Environmental	Operating Temperature	0°C to +40°C	
	Non-Operating Temperature	-30° to +85°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	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	
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 Type-C receptacle	
Notes	<p>1. The characteristics defined are at ambient temperature of 25°C unless otherwise specified.</p> <p>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).</p> <p>3. Efficiency is measured after 30 minutes burn-in.</p>		

Outline Drawing

AQ27A Outline Drawing



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