



# 18W Fixed Blade USB-C Charger With Power Delivery 3.0 – EU



## Features

- USB Type-C
- Fixed Blade
- Ecodesign/ErP Lot 7 (EU) 2019/1782 Compliance
- CoC Version 5 Tier 2 Compliance
- Complies with USB Power Delivery 3.0
- USB Power Delivery 3.0 Certified
- Limited Power Source (LPS)
- Class B EMI
- OVP and short circuit protection

## Applications

- Mobile Phones
- Networking Devices
- Tablets

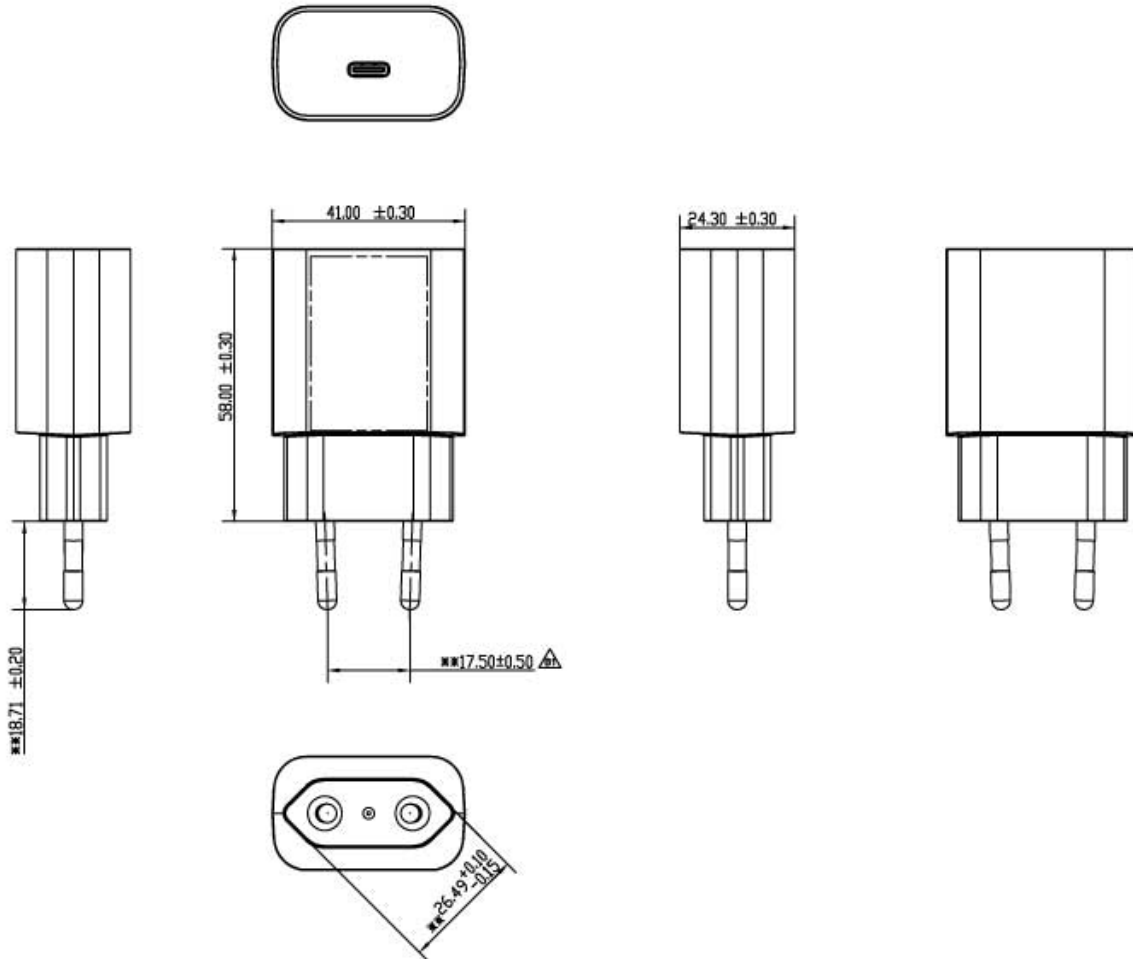


# AQ18E Specifications<sup>1</sup>

Model		AQ18E-59A-H <sup>2</sup>	AQ18E-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	15.0W/18.0W	15.0W/18.0W/18.0W/18.0W
	Regulation	± 5%	
	Ripple & Noise P-P(max) <sup>3</sup>	250mV	
Input	AC Input Voltage Range	90 to 264VAC	
	AC Input Frequency	47 to 63Hz	
	Input Current	0.5A (RMS) max at 100VAC	
	No Load Power Consumption at 115VAC Input	0.038W	0.038W
	No Load Power Consumption at 230VAC Input	0.052W	0.052W
	115VAC Average Efficiency <sup>4</sup>	5V: 81.89%, 9V: 86.08%	5V: 81.89% 9V: 86.08% 12V: 86.96%, 15V: 86.54%
	230VAC Average Efficiency <sup>4</sup>	5V: 81.63%, 9V: 86.42%	5V: 81.63%, 9V:86.42% 12V: 86.85%, 15V: 87.26%
	230VAC 10% Load Efficiency <sup>4</sup>	5V: 78.84%, 9V: 83.09%	5V: 78.84%, 9V: 83.09% 12V: 81.29%, 15V: 78.88%
Leakage Current	100uA max		
Protections	Over-Voltage	5V: 6.25V max, 9V:11.25V max, 12V: 15V max, 15V: 18.75V max; Auto recover	
	Over-Current	5V: 4.05A max, 9V: 2.7A max, 12V: 2.025A max, 15V: 1.62A max; Auto recover	
	Short Circuit	Auto recover	
	Over Temperature	Latch off	
Environmental	Operating Temperature	0°C to +40°C	
	Non-Operating Temperature	-30° to +70°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	IEC 62368-1	
	EMI Emissions	EN 55032/CISPR 32 Class B Conducted and Radiated	
	Harmonic Current Emissions	IEC 61000-3-2	
	Voltage Fluctuations & Flicker	IEC 61000-3-3	
Immunity	EN 55035/CISPR 35: IEC 61000-4-2 (Contact: ±4KV, Air: ±8KV), IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5 (± 1kV), IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11		
Mechanical	Dimensions (L x W x H)	76.71mm (3.02in) x 41.0mm (1.61in) x 24.3mm (0.96in)	
	Weight	55g	
	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>Special order item. Minimum order quantity applies.</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>		



# AQ18E Outline Drawing





# 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
Part no: UES-1003A160	Desc: Low Drop Type-C USB Cable - 1 Meter – 23AWG on Power – 30AWG on Data - White