



# 18W Fixed Blade USB-C Charger with Power Delivery 3.0 – UK



## **Features**

- USB Type-C
- Fixed Blade
- Ecodesign/ErP Lot 7 (EU) 2019/1782 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

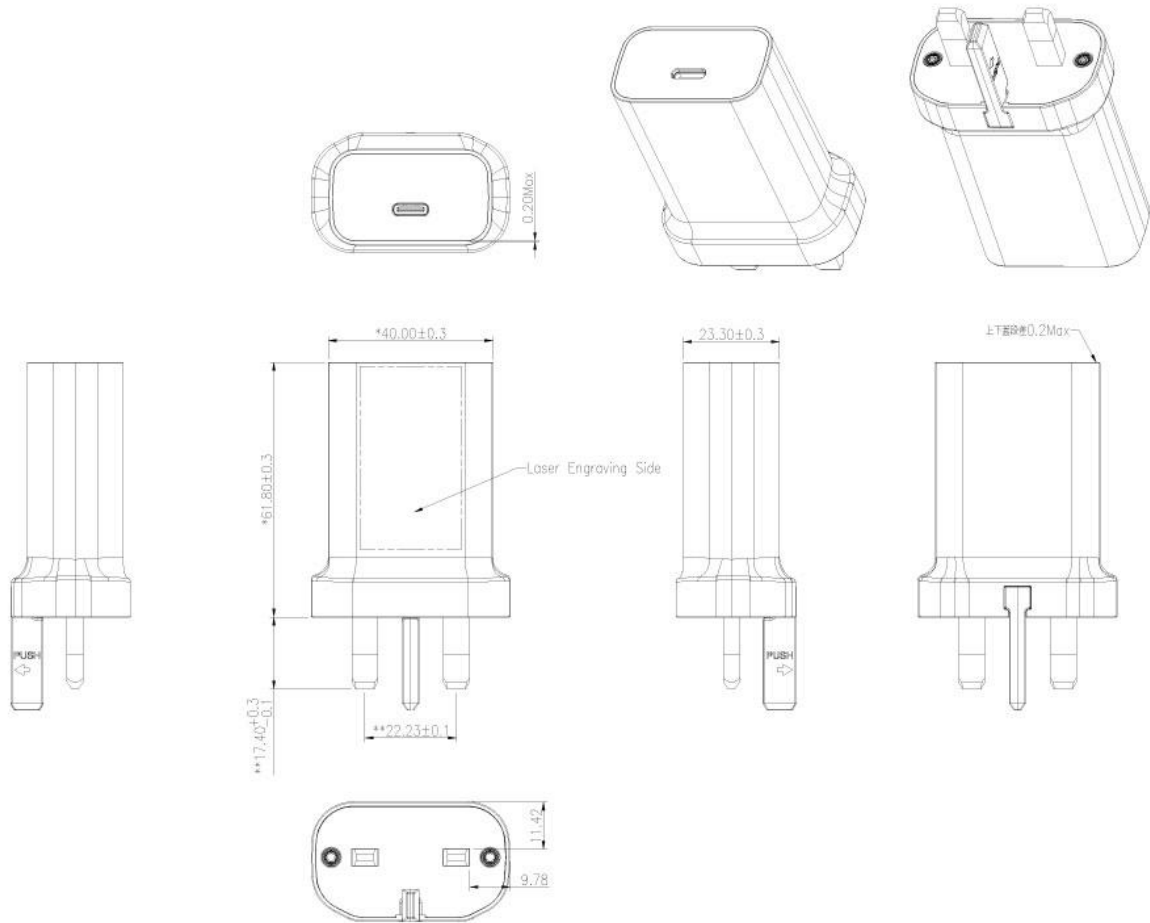


# AQ18K Specifications<sup>1</sup>

Model		AQ18K-59A-H <sup>2</sup>	AQ18K-59CFA-H <sup>2</sup>
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	≤ 0.1W	≤ 0.1W
	No Load Power Consumption at 230VAC Input	≤ 0.1W	≤ 0.1W
	115VAC Average Efficiency <sup>4</sup>	5V: ≥ 81.4%, 9V: ≥ 85.0%	5V: ≥ 81.4%, 9V: ≥ 85.0% 12V: ≥ 85.0%, 15V: ≥ 85.0%
	230VAC Average Efficiency <sup>4</sup>	5V: ≥ 81.4%, 9V: ≥ 85.0%	5V: ≥ 81.4%, 9V: ≥ 85.0% 12V: ≥ 85.0%, 15V: ≥ 85.0%
	230VAC 10% Load Efficiency <sup>4</sup>	5V: ≥ 72.48%, 9V: ≥ 75.45%	5V: ≥ 72.48%, 9V: ≥ 75.45% 12V: ≥ 75.45%, 15V: ≥ 75.45%
	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)	84.34mm (3.32in) x 40.0mm (1.57in) x 29.0mm (1.14n)	
	DC Output Connector	USB-C	
Notes	1. The specifications defined are at ambient temperature of 25°C, unless otherwise specified. 2. Special order item. Minimum order quantity applies. 3. 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). 4. Efficiency is measured after 30 minutes burn-in.		



# AQ18K 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