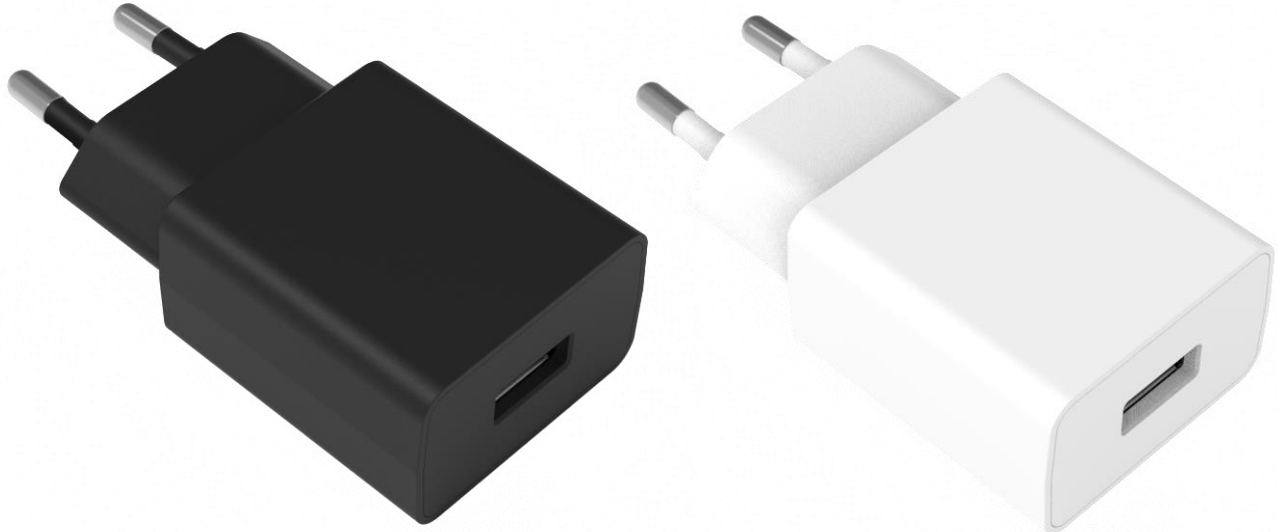


## TECHNICAL DATASHEET

# 10W Fixed Blade USB Charger - EU



## Applications

- Tablets
- Portable GPS Devices
- Personal Electronics

## Features

- Fixed Blade
- Ecodesign/ErP Lot 7 (EU) 2019/1782 Compliance
- CoC Version 5 Tier 2 Compliance
- Low Cost
- OVP, OCP, short circuit protections

## Safety Standards



## Dimensions

77.8 x 38.0 x 22.3 mm

(3.06 x 1.49 x 0.88 inch)

## Specifications

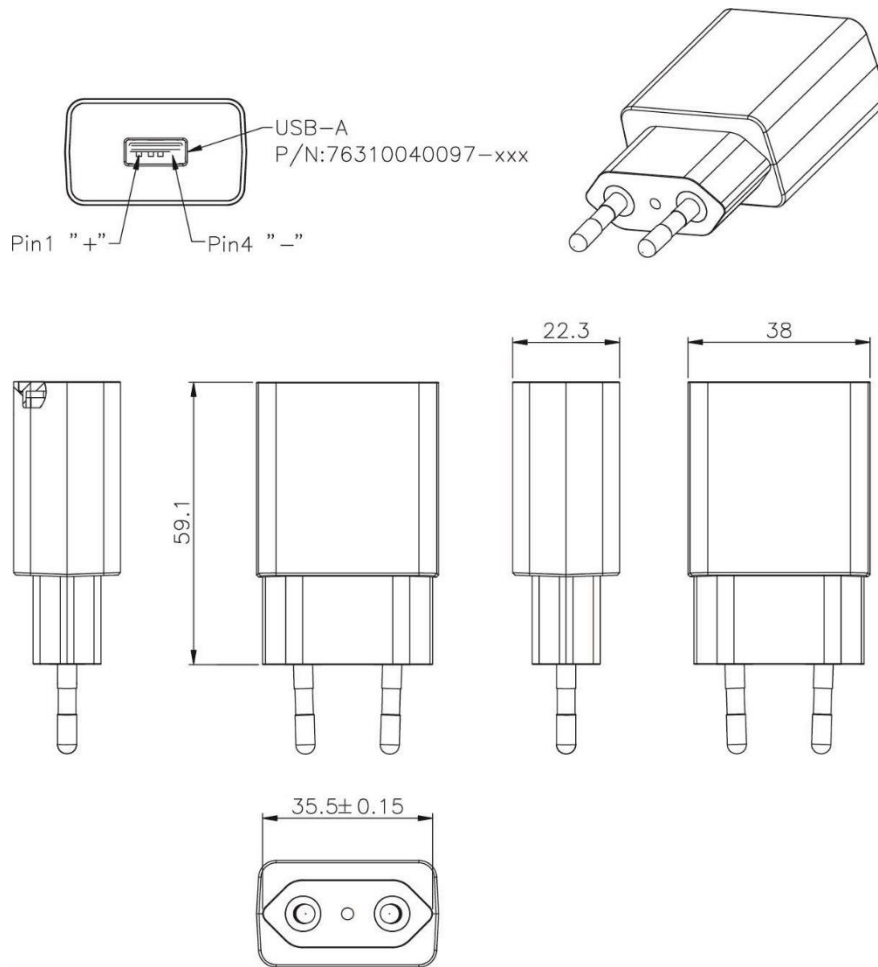
### AQ10E Specifications<sup>1</sup>

Model		AQ10E-050B-H <sup>2</sup>	AQ10E-050BP-H <sup>3</sup>	AQ10E-050BW-H <sup>2</sup>
Output	DC Output Voltage	5.0V		
	Max Current	2.0A		
	Output Power	10.0W		
	Output Voltage Tolerance	4.75V~5.40V (at USB A connector)		
	Ripple & Noise P-P(max) <sup>4</sup>	150mV		
Input	AC Input Voltage Range	90 to 264VAC		
	AC Input Frequency	47 to 63Hz		
	Input Current	0.28A (RMS) max at 115VAC/60Hz, 0.16A (RMS) max at 230VAC/50Hz		
	No Load Power Consumption at 115VAC Input	0.014W	0.037W	0.014W
	No Load Power Consumption at 230VAC Input	0.021W	0.048W	0.021W
	115VAC Average Efficiency <sup>5</sup>	80.4%	79.74%	80.4%
	230VAC Average Efficiency <sup>5</sup>	80.4%	80.02%	80.4%
	230VAC 10% Load Efficiency <sup>5</sup>	76.2%	75.13%	76.2%
	Leakage Current	125uA max @264VAC/50Hz		
Protection	Over-Voltage	8.0V max		
	Short Circuit	The output can be shorted without damage		
	Over-Current	3.0A max		
Environmental	Operating Temperature	0°C to +40°C		
	Non-Operating Temperature	-20° to +70°C		
	Operating Humidity	90% RH max		
Safety Approvals and EMC	Dielectric Withstand (HI-POT)	Primary to Secondary: 3000VAC for 1min, 10mA		
	Insulation Resistance	Primary to Secondary: >10M 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: ±8KV, Air: ±15KV), 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)	77.8mm (3.06in) x 38.0mm (1.49in) x 22.3mm (0.88in)		
	Weight	40g		
	DC Output Connector	USB-A		
	Case Color	Black	Black	White

Notes	<ol style="list-style-type: none"><li>1. The specifications defined are at ambient temperature of 25C, unless otherwise specified.</li><li>2. Special order item. Minimum order quantity applies.</li><li>3. Supports 5 charging methods:<ol style="list-style-type: none"><li>a. Divider 1 (DCP Applying 2V on D+ Line and 2.7V on D- Line)</li><li>b. Divider 2 (DCP Applying 2.7V on D+ Line and 2V on D- Line)</li><li>c. USB Battery Charging Specification Revision 1.2 (BC1.2)</li><li>d. Chinese Telecommunications Industry Standard YD/T 1591-2009</li><li>e. 1.2V on both D+ and D- lines</li></ol></li><li>4. 20MHz bandwidth frequency oscilloscope, add a 0.1<math>\mu</math>F multilayer Cap. and Low ESR Electrolytic Cap. (10<math>\mu</math>F) at output connector terminals (nominal line voltage, full load).</li><li>5. Efficiency is measured after 30 minutes burn-in</li></ol>
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# Outline Drawing

## AQ10E Outline Drawing



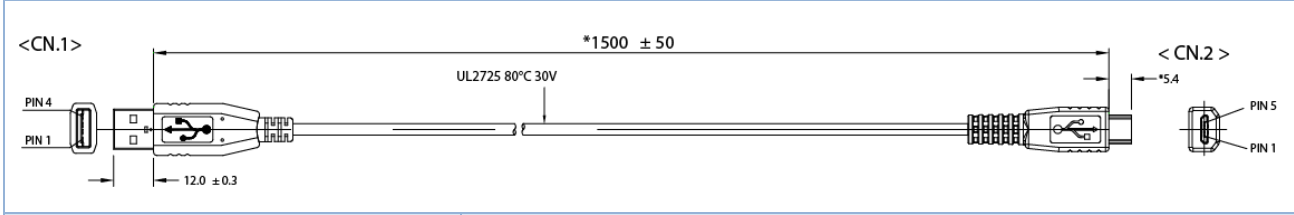
# USB Cables

## USB Cables – Sold Separately

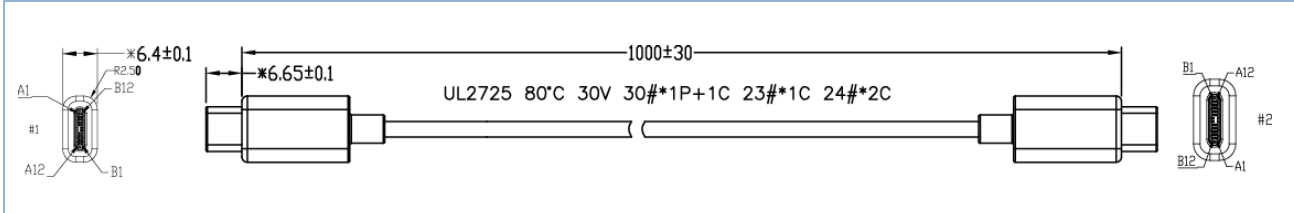
Unit: mm

Part no: IP-USB1(C10)S	Desc: USB-A to Micro-B – 1 Meter – Black
Part no: IPUSB1CS	Desc: USB to Mini-B – 1.5 Meter – Black
Part no: IPUSB1MS	Desc: USB-A to Micro-B – 1.5 Meter – Black
Part no: IPUSB1M5LD	Desc: USB-A to Micro-B – 24AWG – Low Drop – 1.5 Meter – Black
Part no: IPUSB1P5	Desc: USB-A to Micro-B – 1 Meter – 24AWG – Black
Part no: IPUSB1P5W	Desc: USB-A to Micro-B – 1 Meter – 24AWG – White

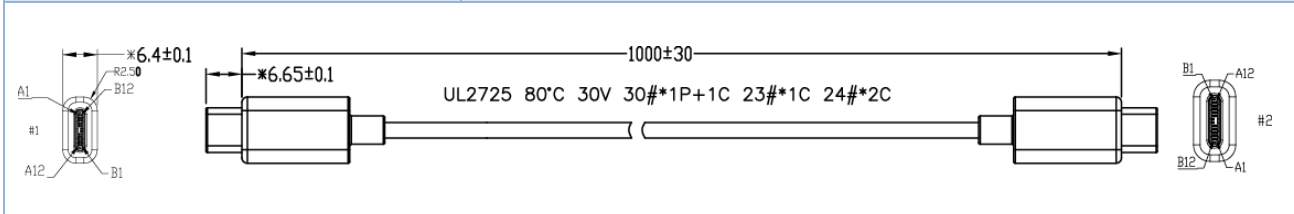
Part no: IPUSB1MSW	Desc: USB-A to Micro-B – 1.5 Meter – White
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Part no: UES-1001A160	Desc: Low Drop Type-C USB Cable – 1 Meter – 23AWG on Power – 30AWG on Data - Black
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Part no: UES-1003A160	Desc: Low Drop Type-C USB Cable - 1 Meter – 23AWG on Power – 30AWG on Data - White
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