

# AQ15S-050B



## 15W Fixed Blade USB Type-C Charger for AU & NZ (2<sup>nd</sup> Gen)



### Features

- Fixed Blade for Australia and New Zealand
- USB Type-C
- Greenhouse and Energy Minimum Standards (External Power Supplies) Determination 2014 (GEMS Act) & Minimum Energy Performance Standards Compliant
- Class B EMI
- OVP and Short Circuit Protection
- Operation up to 5,000 Meters

### Applications

- Mobile Devices
- Portable Devices
- Networking Devices

### Description

The single 5VDC output AQ15S-050B AC/DC USB Type-C adapter features a USB C port and provides an output of 15 watts. The highly efficient power supply bears input prongs for use in the Australia and New Zealand and complies with GEMS and MEPS regulations.

Approved for operation to +40 degrees C without derating and up to 5,000 meters altitude, the AQ15S-050B meets CISPR 32 Class B emissions and EN55035 immunity requirements, is approved to AS/NZS 62368.1, and bears the RCM mark. The cost-effective, high-performance adapter is suitable for use in a wide range of consumer and portable applications.

Specifications<sup>1</sup>

Model		AQ15S-050B-H	AQ15S-050BW-H <sup>2</sup>
Output	DC Output Voltage	5.0V	
	Max Current	3.0A	
	Output Power	15.0W	
	Regulation	± 5%	
	Ripple & Noise P-P(max) <sup>3</sup>	150mV	
Input	AC Input Voltage Range	90 to 264VAC	
	AC Input Frequency	47 to 63Hz	
	Input Current	0.5A (RMS) at full load	
	Inrush Current	80A max at 264Vac, cold start	
	115VAC Input No Load Power Consumption	≤ 0.100W	
	230VAC Input No Load Power Consumption	≤ 0.100W	
	115VAC Input Average Efficiency <sup>4</sup>	≥ 81.4%	
	230VAC Input Average Efficiency <sup>4</sup>	≥ 81.4%	
	230VAC 10% Load Efficiency <sup>4</sup>	≥ 72.5%	
	Leakage Current	<0.1mA @ 264Vac	
Protections	Over-Voltage	< 7.5V	
	Short Circuit	Auto recover with no damage	
	Over-Current	< 3.6A, auto-recovery	
Environmental	Operating Temperature	0°C to +40°C	
	Storage Temperature	-25 to +60°C	
	Operating Humidity	10 to 90% RH	
Safety Approvals and EMC (Pending)	Dielectric Withstand (HI-POT)	Primary to Secondary: ≤ 5mA @ 3.6K Vac for 1 min.	
	Insulation Resistance	Primary to Secondary: ≥ 2M ohm @ 500Vdc	
	Standards	IEC 62368-1	
	EMI Emissions	EN 55032 Class B	
	Harmonic Current Emissions	IEC 61000-3-2	
	Voltage Fluctuations & Flicker	IEC 61000-3-3	
	Immunity	EN 55035/IEC 55035: IEC 61000-4-2 (+/-15kV air, criteria B +/- 8kV contact, criteria B), IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5 (1KV L-N), IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11	
Mechanical	Dimensions (L x W x H)	55.5mm (2.19in) x 42.8mm (1.69in) x 23.5mm (0.93in)	
	DC Output Connector	USB-C	
	Case Color	Black	White
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 MOQ</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. Tested with Huaian Jen Vei Electronic Company., Ltd., USB C-to-C cable part number 1U-01560WA measuring 1,000mm with 30AWGx2C + 30AWGx2C + 22AWGx2C (2E+F+A+S).</li> </ol>		



# USB Cables – Sold Separately



## Outline Drawing (mm)

<p>Part no: UES-1001A160</p>	<p>Desc: Low Drop Type-C USB Cable – 1 Meter – 23AWG on Power – 30AWG on Data - Black</p>
<p>Part no: UES-1003A160</p>	<p>Desc: Low Drop Type-C USB Cable - 1 Meter – 23AWG on Power – 30AWG on Data - White</p>

PRELIMINARY