



## 5W USB Medical Grade Adapter



### Features

- Meets DoE Level VI
- MOOP Classification
- Divider Mode Charging
- LPS Compliant
- OVP, OCP, SCP

### Applications

- Blood Glucose Meters
- Blood Pressure Monitors
- Wearable Monitoring Devices

### Safety Approvals

- AAMI/ANSI ES 60601-1
- IEC60601-1
- IEC60601-1-11

### Mechanical Characteristics

- Length: 47mm (1.85in)
- Width: 37.9mm (1.49in)
- Height: 22.3mm (0.88in)
- Weight: 40g (1.41oz)

### Output Specifications

Model	DC Output Voltage	Load		Ripple <sup>1</sup> P-P (max.)	Regulation Line & Load <sup>2</sup>	Case Color
		Min.	Max.			
MQ05A-050A-H <sup>3</sup>	5V	0A	1A	200mV	±5%	Black
MQ05A-050AW-H	5V	0A	1A	200mV	±5%	White

#### Notes:

1. Measured with by-pass capacitors 0.1uF/10uF at output connector terminal and oscilloscope set at 20 MHz bandwidth. Requires 10mins burn-in at max load at cold start condition when testing at 0°C
2. Output voltage measured on 1000mm long cable having #22AWG wires and at USB Micro-B connector
3. Special order item. Minimum order quantity applies

**Input:****AC Input Voltage Rating**

100 to 240V AC

**AC Input Voltage Range**

90 to 264V AC

**AC Input Current**

0.15A(RMS) max

**Leakage Current**

5uA max

**Input Power Saving<sup>2</sup>** $\leq 30\text{mW}$  @115VAC/230VAC no load**Output:****Efficiency**

DOE Level VI

COC V5 Tier 2

**Environmental:****Temperature**

Operation 0°C to +40°C

Non-operation -40°C to +85°C

Relative Humidity 90%

**Emissions**

Complies with FCC Class B

Complies with CAN ICES-001(B)/NMB-001(B)

**Immunity**

ESD EN61000-4-2 Level 4

Surge EN61000-4-5 Level 3

**Dielectric Withstand (Hi-pot) Test**

Pri. to Sec. 3000VAC 10mA for 1 Minute

**Insulation Resistance**Pri. to Sec.:  $>10\text{M ohm}$  500VDC**FEATURES:****Over-Voltage Protection**

7V max.

**Short-Circuit Protection**

Auto-restart

**Over-Current Protection**

105%~140%

**DC Output Connector**

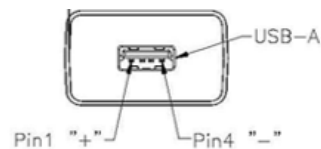
USB A:

Pin 1 = V+

Pin 2 = 2.68V

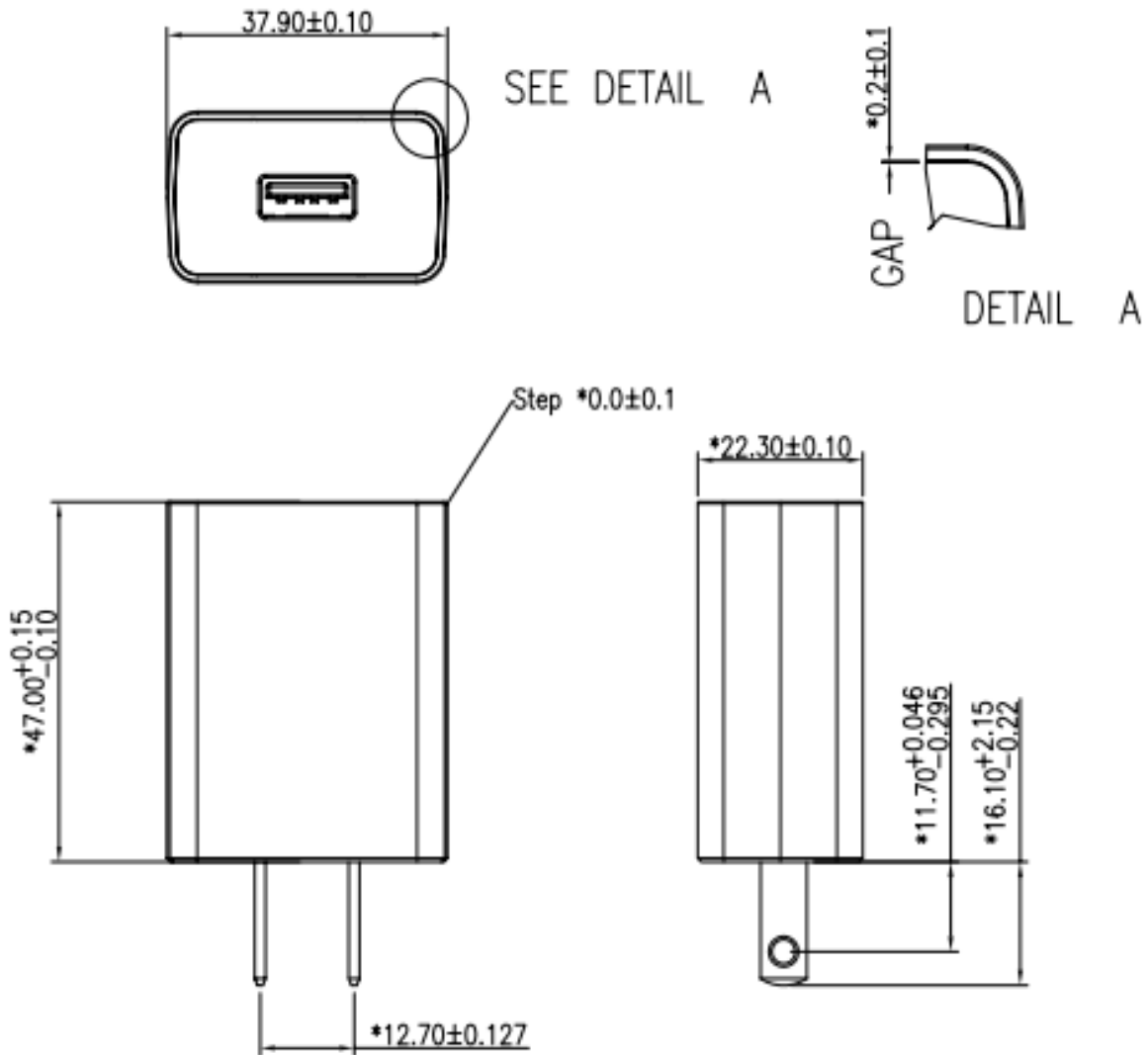
Pin 3 = 2V

Pin 4 = RTN

**Notes:**

1. The characteristics defined are at ambient temperature of 25°C unless otherwise specified
2. After 15 minutes warm-up.

Dimension Diagram Unit: mm



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