60W Power Delivery 3.0 POE-to-USB C Converter

Features

- Power Delivery 3.0
- USB-C Receptacle
- Works with IEEE802.3bt Compliant Power Sourcing Equipment
- 10/100/1000 Mbps Data Input Speed
- Short Circuit, Over-Current & Over-Voltage Protection

Applications

- Mobile Phone
- Tablet
- Laptop Computer
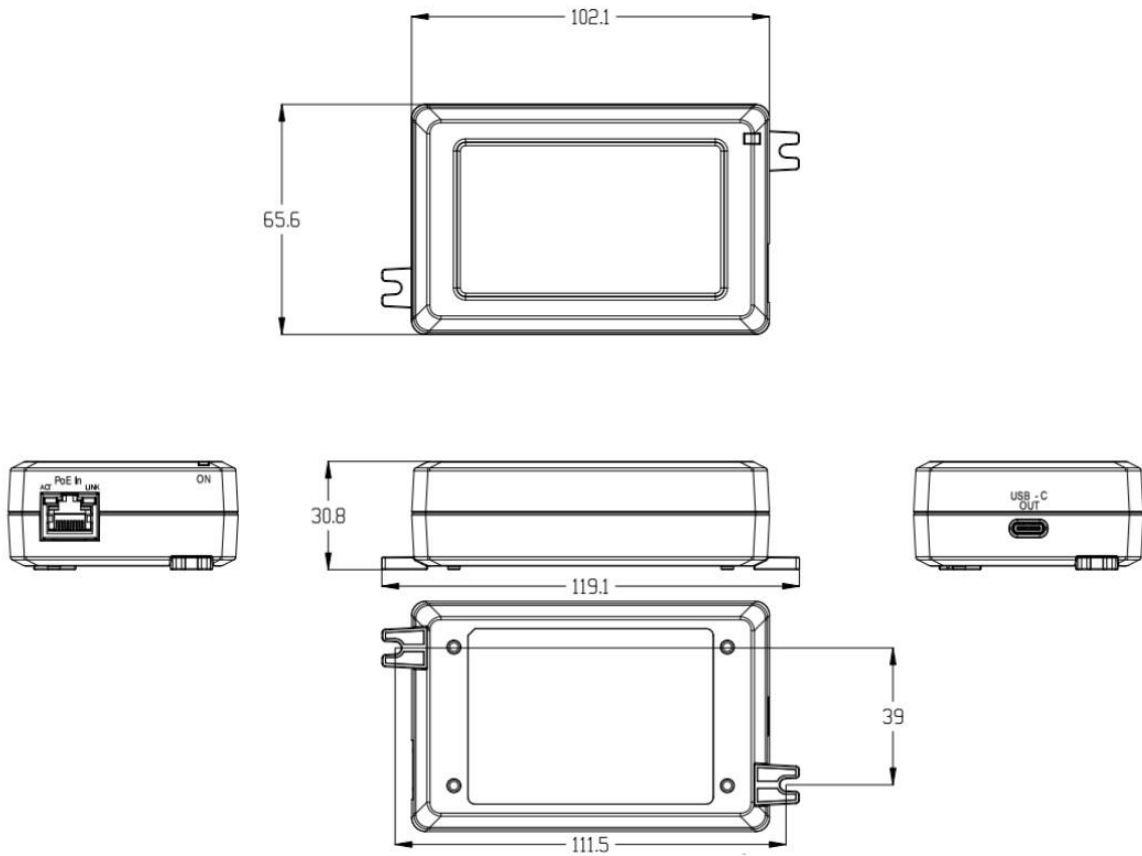- Networking Device
- Bluetooth & Multimedia Speaker

POEUSB60-1BT Specifications[1]

Model	POEUSB60-1BT-R
Output DC Output Voltage	5.0V/9.0V/12V/15.0V/20.0V
Max Current	3.0A/3.0A/3.0A/3.0A/3.0A
Output Power	60W
Regulation	± 2% Line (3% for 5V) / ± 2% Load (3% for 5V)
Ripple & Noise P-P(max)[2]	250mV
Input DC Input Voltage Range	44V to 56V
Input Current	1.6A max.
Efficiency	5V: 73%; 9V: 81%; 12V: 83%; 15V: 84%; 20V: 85%
Protection Over-Voltage	24VDC max. Non-latching
Short Circuit	Hiccup mode. Output can be shorted permanently without damage.
Over-Current	Hiccup mode
Environmental Operating Temperature	-20ºC to +40ºC
Non-Operating Temperature	-20ºC to +65ºC
Operating Humidity	5% to 90% RH max
Emissions & Immunities EMC and Immunities	EN55032 Class B IEC 61000-4-2 (10KV contact discharge/12KV air discharge), IEC 61000-4-3 (3V/M), IEC 61000-4-4 (±2kV 5/50nS 5Khz), IEC 61000-4-5 (Unshielded Sym. Data Lines: 0.5KV, Shielded Sym. Data Lines: 1KV)
Mechanical Dimensions (L x W x H)	119.1mm (4.69n) x 65.6mm (2.58in) x 30.8mm (1.21in)
Weight	128g
DC Output Connector	USB-C
Input Connector	RJ45 Jack
Indicator Lights LED	LED #1: Blue – Indicator for output power "on" LED #2 (RJ45): Orange – Indicator for data activity LED #3 (RJ45): Green – Indicator for link speed
Notes	1. The specifications defined are at ambient temperature of 25ºC, unless otherwise specified. 2. Using 20MHz bandwidth frequency oscilloscope and measured using socket probe across 100uF electrolytic and 0.1uF ceramic capacitors at the barrel connector output (nominal line voltage, full load).

POEUSB60-1BT Outline Drawing

102.1

65.6

PoE In   ON
ACT   LINK

30.8

119.1

USB - C
OUT

39

111.5

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Phihong](#):

[POEUSB60BT-R](#) [POEUSB60-1BT-R](#)