



# 20W Power Delivery POE-to-USB C Converter



## Features

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

## Applications

- Mobile Phone
- Tablet
- Networking Device



# POEUSB20-1AT Specifications<sup>1</sup>

Model		POEUSB20-1AT-R
Output	DC Output Voltage	5.0V/9.0V/12V/15.0V/20.0V
	Max Current	2.5A/2A/1.67A/1.33A/1.0A
	Output Power	20W
	Regulation	± 2% Line / ± 2% Load
	Ripple & Noise P-P(max) <sup>2</sup>	200mV
Input	DC Input Voltage Range	44V to 57V
	Input Current	0.6A 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	-20°C to +55°C -20°C to +45°C Rating: 5V/2.5A, 9V/2A, 12V/1.67A, 15V/1.33A, 20V/1A +55°C Rating: 5V/2A, 9V/1.25A, 12V/1A, 15V/0.75A, 20V/0.5A
	Non-Operating Temperature	-20°C to +65°C
	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)	112.5mm (4.43in) x 50.6mm (1.99in) x 30mm (1.18in)
	Weight	100g
	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 25°C, 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).	



# POEUSB20-1AT Outline Drawing

