




e-one, stand-alone inverters a step forward!
Incredible compactness and reliability, while protecting loads and batteries.

 Telecom

 Datacom

 Mass transport

 Others

DC In
48 Vdc

AC In
230 Vac

AC Out
230 Vac

Power
1 kVA
0.8 kW

Main Features:

e-one 10 - 48/230 is a stand-alone inverter capable of converting a **48 Vdc** power source into a **pure sine wave of 230 Vac** at 50 Hz. This inverter can deliver 1 kVA / 0.8 kW while operating from -20 to 65°C. e-one can be easily rack, wall or desk-mounted.

This inverter is available in two versions: **regular** (DC input only) and **by-pass** (AC and DC input). In by-pass version, the inverter can automatically switch from the DC source to the AC source if there are problems (with the batteries, charger or distribution). Another way to better secure your critical loads.

Best in-class solution?

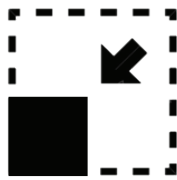
With **dimensions** of 1U x 342 mm x 221 mm, the e-one occupies just 3,300 cm³ while our competitors' products are almost double the size.

e-one provides a perfect AC output (pure sine wave) that lets your **critical loads to work their best**.

We also guarantee a very low ripple voltage compliant with the telecom standard. In practical terms, this means almost no disturbances reach your DC load or **batteries**; a great benefit as disturbances considerably reduce battery life.

To minimize your **maintenance costs**, we have incorporated a variable fan speed for cooling. The fan's speed changes, or it switches off entirely, according to need. This reduces fouling and other maintenance problems.

Finally, regarding **reliability**, the e-one inverter is based on our Y-One inverter which has an incredibly low failure rate.



Applications

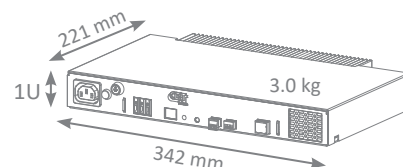
e-one is the ideal solution for powering and securing any AC equipment: **telecommunication** (5G, WiFi repeaters, supervision, maintenance, cooling, security and access for base stations, etc.), **mass transport** (signalling systems for trains, GSMR along the track, etc.) and many **others** (CCTV cameras for traffic control system, police radio network, etc.).

Illustrations are non-binding and may include customized fittings.

e-one 10 - 48/230

General		Bypass (AC and DC Input)	
Part Number		T551730201	
Cooling / Audible noise		Forced cooling with FAN speed control / < 65 dBA at one meter	
MTBF		200 000 hrs	
Dielectric strength DC/AC		4250 Vdc	
RoHS		Compliant	
Vibration		GR63 office vibration 0 to 100 hz-0.1 g / transport vibration 5-100 Hz 0.5 g 100 to 500 hz-1.5 g / Drop test	
Altitude above sea without de-rating		< 1500 m / de-rating > 1500 m – 0.8 % per 100 m	
Ambient / storage temperature / relative humidity		-20 to 65° C / -40 to 70° C / 95 %, non-condensing De-rating from 40° C to 65° C	
Material (casing)		Coated steel	
Power			
DC Input Specifications			
Nominal voltage (DC)		48 V	
Voltage range (DC)		40 - 60 V	
Nominal current at 800 W / 48 VDC		19 A	
Maximum input current (for 15 seconds) / voltage ripple		28 A / 2 mV psopho @ 48 V - 80% LOAD	
AC Input Specifications			
Nominal voltage (AC)		230 V	
Nominal frequency		50 Hz	
Voltage range		207 - 253 Vac	
Frequency range		50 Hz (range 47 – 53 Hz)	
AC Output Specifications*			
Peak Efficiency DC/AC		91%	
Peak Efficiency AC/AC		99%	
Nominal voltage		230 Vac	
Frequency / frequency accuracy		50 Hz / $\pm 0.1\%$	
Nominal Output power (VA) / (W)		1000 VA / 800 W	
Short time overload capacity		150 % (15 seconds) within T° range	
Admissible load power factor		0 lagging to 0 leading	
Total harmonic distortion (resistive load)		< 3 %	
Turn on delay		20 s	
Nominal current. Protected against reverse current		4.35 A at 230 Vac	
Crest factor at nominal power		2.5 : 1	
Short circuit current duration		> 9A for 200 ms, then inverter stops and needs a manual restart	
Transfer time from DC mode to By-pass mode and vice-versa		< 10 ms	
AC output voltage stability		$\pm 2\%$ from 0% to 100% load	
Signaling & Supervision			
Display		Front LED	
Alarms output / supervision		Dry contact on the front	
Remote ON / OFF		On the front	
Standard Compliances			
Safety		IEC62040-1	
Psophometric		ETS 300 386 – 2 : 2mV	
EMI / EMC		EN 55032 Class A Radiated and Conducted IEC 61000-3-2 harmonic current class A EN61000-4-2 ESD criteria A - 15 kV Air and 8 kV contact EN61000-4-3 RF Field – Enclosure Port criteria A : 10 V/m EN61000-4-4 Burst - All ports criteria A : 2kV EN61000-4-5 Surge criteria B all ports EN61000-4-6 class A criteria A 10V EN61000-4-8 30 A/m	

* This specification is valid for DC mode only. In By-pass mode, the output will be same as AC input.



e-one 10 - 48/230 - Datasheet - v2.7 Specifications can change without notice. New data will be updated on our Web site: www.cet-power.com.
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