

e-one 10 - 48/230

(No AC In)



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



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.



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General	No AC in (Regular)		
Part Number	T551730211		
Cooling / Audible noise	Forced cooling with FAN speed control / < 65 dBA at one meter		
MTBF	200 000 hrs		
Dielectric strength DC/AC	4300 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 50° C to 65° C Coated steel		
Material (casing)			
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 Output Specifications			
Peak Efficiency DC/AC	91%		
Nominal voltage (AC)	230 V		
Frequency / frequency accuracy	50 Hz / ± 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 4.35 A at 230 VAC		
Nominal current. Protected against reverse current			
Crest factor at nominal power	2.5 : 1		
With short circuit management and protection	> 9A (2xIn) for 15 s and then no output power from module		
Signaling & Supervision			
Display	Front LED		
Alarms output / supervision	Dry contact on the front		
Remote ON / OFF	On the front		
Standard Compliances			
	IEC60950		
	ETS 300 386 – 2 : 2mV		
	EN 55022 Class A Radiated and Conducted		
	ETS 300 132 – 2 : Product Standard		
	IEC 61000-3-2 harmonic current class A		
Standards	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		





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Middle East