

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.









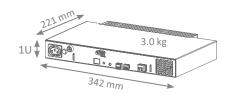
Applications

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 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 Output Specifications | |
| Peak Efficiency DC/AC | 91% |
| Nominal voltage | 230 Vac |
| 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 |
| 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 |
| AC output voltage stability | ±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 | |
| Standards | 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 |
| | 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 |



e-one 10 - 48/230 - No AC in - Datasheet - v2.6 Specifications can change without notice. New data will be updated on our Web site: www.cet-power.com.

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