



Telecommunications



Data centers



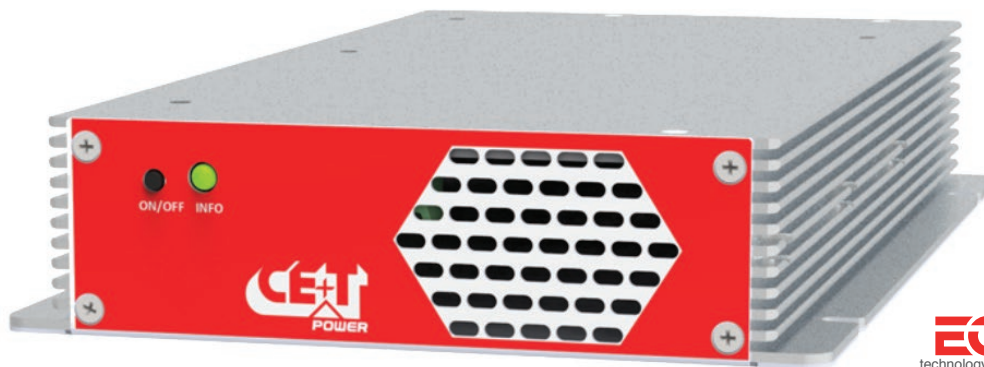
Industries



Renewable

STAND-ALONE INVERTER E-ONE 3 48/230

INVCETEONE3



ECI
technology inside

MAIN FEATURES

e-one 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 output power of 350 VA / 300 W and operates from -20°C to 65°C. e-one can be easily rack, wall or desk-mounted.

BEST IN-CLASS SOLUTION?

With dimensions of 1U x 230 mm x 165 mm, this very small inverter occupies just 1,600 cm³. 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.

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 telecommunication equipment (5G, WiFi repeaters, supervision, maintenance, cooling, security and access for base stations, etc.) and many others (CCTV cameras for traffic control system, police radio network, etc.).

* Support AC load with nominal voltage 220/230/240 VAC



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SPECIFICATIONS

e-one 3 - 48/230

General

Cooling	Natural Cooling
MTBF	620 000 hrs
Peak Efficiency DC/AC	> 90%
Dielectric strength DC/AC	3800 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 45° C to 65° C
Material (casing)	Aluminium & Coated steel

Power

AC Output Power	
Nominal Output power (VA) / (W)	350 VA / 300 W
Short time overload capacity	150 % (15 seconds within T° range)
Admissible load power factor	0 lagging to 0 leading
DC Input Specifications	
Nominal voltage (DC)	48 V
Voltage range (DC)	40 - 60 V
Nominal current at 300 W / 48 VDC	7A
Maximum input current (for 15 seconds)	11 A
Voltage ripple	2 mV psopho @ 48 V - 80% LOAD
AC Output Specifications	
Nominal voltage (AC)	230 V
Frequency / frequency accuracy	50 Hz / ± 0.2%
Total harmonic distortion (resistive load)	<3 %
Turn on delay	20 s
Nominal current. Protected against reverse current	1.6 A at 230 VAC
Crest factor at nominal power	2.5 : 1
Short circuit current duration	> 3.2 A for 200 ms, then inverter stops and needs a manual restart

Signaling & Supervision

Display	Front LED
Alarms output / supervision	Dry contact on the rear
Remote ON / OFF	On the rear

Standard Compliance

Standards	IEC62040-1 ETS 300 386 – 2 : 2 mV EN 55022 / 55032 Class A Radiated and Conducted ETS 300 132 – 2 : Product Standard 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 conducted RF criteria A 10V EN61000-4-8 PFMF criteria A 30 A/m
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Accessories: Holding shelf for 19" cabinet (maximum two inverter modules).

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