powerbox
Powering Progress

e-one 1000 VA
with by pass

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

☒ Telecom ☒ Datacom ☒ Mass transport ☒ Others

DC In	AC In	AC Out	Power
48 Vdc	230 Vac	230 Vac	1 kVA 0.8 kW

Main Features:

e-one 1000 VA with by pass is a stand-alone inverter capable of converting a 48 Vdc power source into a pure sine wave of 230 Vac at 50 or
By default this inverter runs on DC mode but when this mode fails, it will automatically operate in By-pass mode.

This inverter can deliver 1,000 VA / 800 W while operating from -20 to 65°C. e-one can be easily rack, wall or desk-mounted.

Best in-class solution?

Withdimensionsof 1U x 342 mm x 221 mm, this very small inverter occupies just 3,300 cm^3 while our competitors' products are almost dc
the size.

e-one provides a perfect AC output (pure sine wave) that letscritical 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 re
DC load obatteries, a great benefit as disturbances considerably reduce battery life.

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

Finally, regardingeliability, 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 equipmentin 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 otherys
(CCTV cameras for traffic control system, police radio network, etc.).

Illustrations are non-binding and may include customized fittings.

Doc. No. e-one_By pass_48Vdc_230Vac_1kVA_Rev.X_07-11-18

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e-one with by pass 1000 VA 230 Vac

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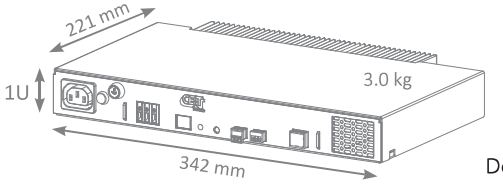
General	
Cooling	Forced cooling with FAN speed control
MTBF	200 000 hrs
Peak Efficiency DC/AC	91%
Dielectric strength DC/AC	4300 Vdc
RoHS	Compliant
Vibration	GR63 office vibration 0 to 100 hz-0.1 g / transport vibration 5-100 Hz 0.5 g 100 to 500 hz-1.5 g / Drop test
Altitude above sea without de-rating	< 1500 m / derating > 1500 m – 0.8 % per 100 m
Ambient / storage temperature / relative humidity	-20 to 65° C / -40 to 70° C / 95 %, non-condensing Derating from 50° C to 65° C
Material (casing)	Coated steel
Power	
AC Output Power	
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
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	Separate part number for 50 Hz and 60 Hz
Voltage range	207 - 253 Vac
Frequency range	50 Hz (range 47 – 53 Hz) / 60 Hz (range 57 – 63 Hz)
AC Output Specifications*	
Nominal voltage (AC)	230 V
Frequency / frequency accuracy	Separate part number for 50 Hz / ± 0.1% and 60 Hz / ± 0.1%
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
With short circuit management and protection	> 9A (2xIn) for 15 s and then no output power from module
Transfer time from DC mode to By-pass mode and vice-versa	< 10 ms
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

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



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