e-one 3 - 48/230
Quick Start-up Guide

What is inside?

- e-one inverter
- 1 x 3.15 A Fuse
- 1 x IEC Male plug
- 3 x Connectors (DC, Alarm, & Remote ON/OFF)

Product Description

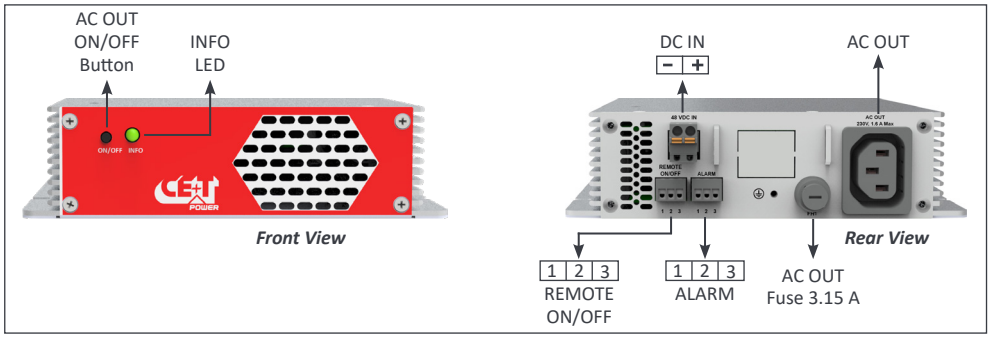
e-one is a standalone inverter capable of converting from 48 Vdc to 230 Vac and delivering an output power of 350 VA.

It has been designed for IP20 environment with a maximum operating ambient temperature of 45°C (113°F). De-rating is above 45°C to 65°C.

e-one can operate alone or can be connected to other devices to receive alarm status and/or to turn On/Off remotely.

Specifications

- Dimension - 165 mm (W) x 42.5 mm (H) x 275 mm (D).
- Weight - 2 kg (4.4 Lbs).



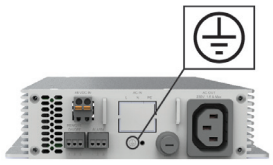
e-one 3 - 48/230 - Termination Details

Electrical Connections

Grounding

Earth connection must be done to the point referenced with Ground symbol ⏚.

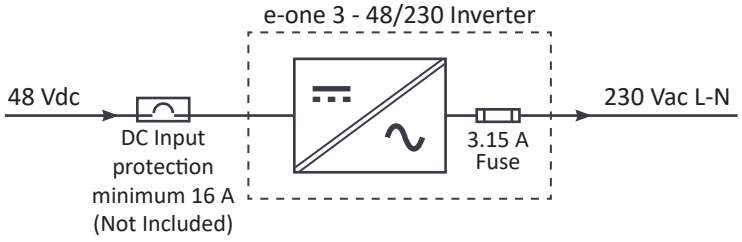
Input ground must be connected to the appropriate terminal.



Caution: Current leakages can reach hazardous values. For your personal SAFETY earth connections must be done before energizing the system.

DC Input

Model	DC input current at 40 Vdc	DC breaker Recommended	Cable size	Max size
e-one 3 - 48/230	9 A	16 A	2.5 mm²	1 x 2.5 mm² per pole



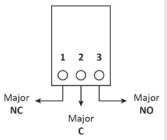
AC Output

Model	Iout @ 230 Vac	Cable size	Max size
e-one 3 - 48/230	1.52 A	1.5 mm²	2.5 mm²

Note: The output Neutral and PE are bonded internally in the module.

Alarm Connections

Model	Maximum Voltage	Switching		
		Capacity	Power	Current
e-one 3 - 48/230	60 Vdc	1A @ 60 Vdc	30 W	1 A



Remote ON/OFF Connections

States	Pin 1-3	Pin 2-3	System status
1	Open	Open	System working normally
2	Closed	Open	Output switched OFF LED OFF
3	Open	Closed	System working normally
4	Closed	Closed	Output switched OFF LED OFF

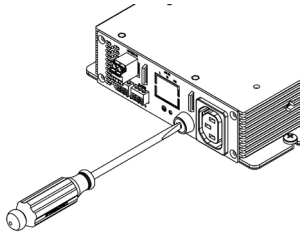
AC Output - Rear Fuse (3.15 A)

Manufacturer	Manufacturer Part Number	Current Rating	Voltage Rating AC	Fuse Size/Group
Schurter	0001.2509	3.15 A	250 Vac	5 mm x 20 mm

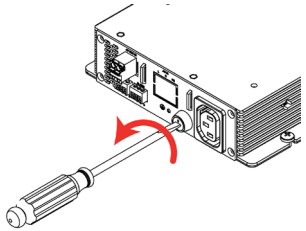
Replacing Rear Fuse (3.15 A)

Step 1: By using the Flat Screw Driver gently turn the Fuse holder to 45° in anti clock wise direction. The Fuse Holder automatically ejects from the slot. (Fuse holder will not go beyond 45°).

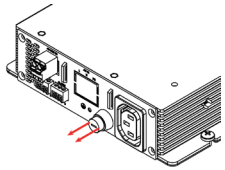
Step 2: Remove the Fuse holder from the slot and replace with new fuse.



Place the Screw Driver



Rotate 45° in anti-clockwise



Remove the Fuse

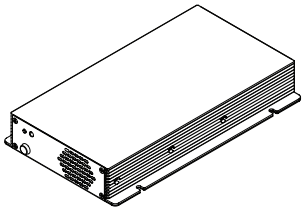
Warning: Risk of electric shock, do not replace the Fuse in system running condition.

Mounting Procedure

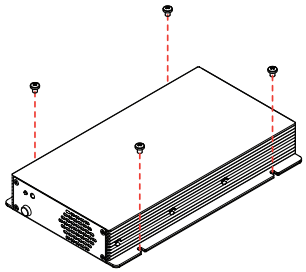
Desk / Wall Mounting

Step 1: Place the module on the desk or place it in the wall.

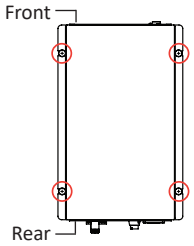
Step 2: Fix the module with M5 screws on all four sides as shown below.



Place the module on the Desk / Wall



Fix it with four screws - Desk Mounting



Fix it with four screws - Wall Mounting

LED Indications - Alarm status

There is one LED at front for input output status.

S. NO	INFO LED	Description	Alarm
1	OFF	No Output	✓
2	Permanent GREEN	Working Fine	-
3	Blinking GREEN	DC Source Out-of-range	✓
4	Blinking ORANGE	Output Power / VA de-rating / Temperature de-rating	-
5	Slow - Blinking RED	Short-circuit Sequence	-
6	Fast - Blinking RED	Module Over-Temperature and Output OFF	✓
7	Permanent RED	Output OFF due to Permanent Short-Circuit	✓
8	Blinking RED- GREEN	Load Power too High and Output OFF	✓

Final check before start up

1. Make sure that the inverter is properly fixed.
2. Make sure that the inverter is connected to Ground.
3. Make sure that DC upstream breaker is switched OFF.
4. Make sure that all cables are according to recommendations and local regulations.
5. Make sure that all cables are strained relieved.
6. Make sure that the Remote ON/OFF is appropriately wired.
7. Re tighten all electrical terminations.
8. Make sure that DC polarity is according to marking.
9. Switch ON DC breaker.

Inverter starts and delivers AC output voltage.

For more information, download the datasheet and the manual at www.cet-power.com, or contact us at customer.support@cet-power.com

Documents