



**Sentry DC/DC Converter** ◆ INSTALLATION • OPERATION Pg.2

English

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24/12 Volts 10 Amps  
24/12 Volts 20 Amps



*Automatic Switch Mode Battery Charger*

**Taylor Made Environmental, Inc.**  
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## Technical Specifications

Input Voltage	24 Volts DC ( $\pm$ 25%)
Input Amps	6.5 Amps (10A); 14 Amps (20A)
Efficiency	84.5% (10A); 83% (20A) typ.

Outputs	1 Isolated Output
Output Voltage	13,6 Volts DC
Input/Output Isolation	2500 V <sub>DC</sub>

Protection	Short circuit – Current limiting Reverse polarity – Fuse Over or under voltages – Unit will shut down Only for the 20 A model: In case of over heating – Unit will shut down
Input Fuse	10 Amps (10A); 15 Amps (20A) - Type auto.
Output Fuse	15 Amps (10A); 25 Amps (20A) - Type auto.

CEM	EN 50081-1 & EN 50082-1
User Security	EN 60950
Class	I

Operating Temperature	14°F, 122°F / -10°C, +50°C
Storage Temperature	-4°F, 158°F / -20°C, +70°C
Humidity	10% - 90% without condensation
Cooling	10A Model: Natural 20A Model: Thermostatically controlled fan

Enclosure	White Powder Coated Aluminum Box
Installation Hardware	2 screws
Dimensions (H x W x D)	10 7/8 x 4 5/8 x 2 7/8 in. / 276 x 117 x 73 mm
Weight	< 2.2 lb / < 1 Kg

Display	1 Led
Power ON	1 Push button
Input Connection	2 Screws
Output Connection	2 Screws

**This device is protected against reverse polarity, and accidental input-output reversal.** In case of bad connections, the operating led will be switched off.

Caution! Read the following before removing the cover.

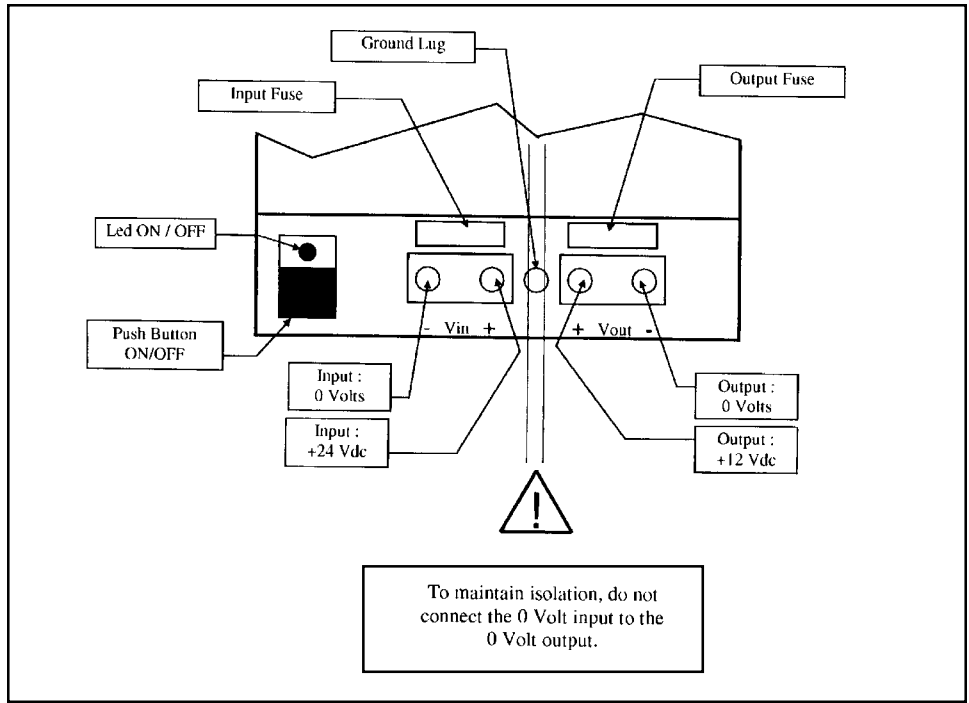
- 1 – Disconnect the input wires
- 2 – Disconnect the output wires
- 3 – Wait 3 minutes before opening the cover

**Risks of electrical shock**

Fuses must be replaced with fuses of the same electrical characteristics; otherwise there are risks of irreversible damage.

## Installation

- Select a dry, well-ventilated area. Mount in a vertical position, to create natural ventilation for the converter. Note that the wiring connections are at the bottom of the converter. Leave at least one inch of clearance all around the converter for proper ventilation.
- Do not install the converter near a heating source or an area subject to water spray.
- Do not block the ventilation holes.
- Do not make any modifications to the enclosure (especially new holes). The metal turnings inside the box may cause irreversible damage to the unit.
- The input of this device is to be connected to a 24 VDC power source (battery).
- For reasons of Electro-Magnetic Compatibility, it is better to twist and limit the length of the wires from the battery.
- It is recommended to use 12 Awg on the input, and 10 Awg for the output.



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