

## Installation and Operation Guide

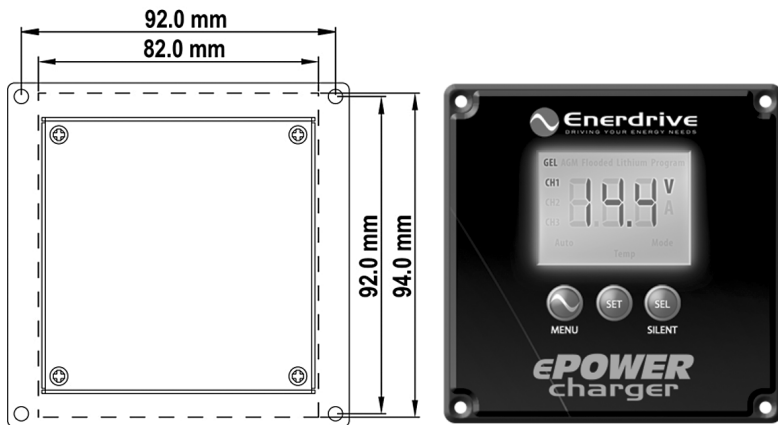
A qualified technician is required to install the Remote Panel to the AC charger. Take caution when working with batteries. Always disconnect the AC Power before you make any installation.

### **WARNING: Shock, fire and energy hazards.**

This Remote Panel is to be used with EN31220 / EN31240 / EN31260 / EN32430 Series for single charger operation. **NOTE: Only EN31260 & EN32430 Series are suitable for parallel charger operation.**

#### **Mounting the Remote Panel:**

- Choose an appropriate mounting location.
- Use the wall cutout template and the Remote Panel mounting template to mark the positions of the mounting holes.



#### **For use with EN31220 / EN31240 / EN31260 / EN32430 Series with single charger unit operation:**

- Install the RJ12 Cable in your desired location.
- Connect one end of the RJ12 cable to 'Com 1' of Remote Panel.
- Secure the Remote Panel.
- Connect the other end of RJ12 cable to the 'Remote' port of the charger.
- The Remote Panel is now ready to use.

**Important:** The EN31220 / EN31240 Series cannot be operated in parallel, and 'Com 2' on the Remote Panel is not used. Please do not connect the charger to 'Com 2', or connect a second charger to 'Com 2'

#### **Understanding the Remote Panel function:**

##### **For Remote Panel use on single charger unit operation:**

- The remote panel controls and display the same functions as the display on the charger.
- When AC Power is connected to the charger, 'Com 1' LED on Remote Panel turns ON.

### **For use with EN31260 / EN32430 Series Chargers operating in parallel:**

- To install the optional Remote Display in a specific location, two 6 pin standard RJ12 cables (maximum length 7.5m) are required. **(NOTE: Only one RJ12 Cable Is Supplied with Remote).**
- Install the two standard RJ12 cables in parallel in your desired location.
- For the first RJ12 cable, connect one end to the Digital Display port of Charger\_1 and the other end to Remote Display Panel COM\_1 Port.
- For the second RJ12 cable, connect one end to the Digital Display port of Charger\_2 and the other end to Remote Display Panel COM\_2 Port.
- The Remote Display is now ready for use.

**Note 1:** With AC Input available, both Digital Displays will show 'CON' indicating the two chargers are connected in parallel. The 'INFO', 'NEXT' and 'SET' push buttons on both chargers are disabled. With AC Input not available, press and hold the 'INFO' button on Charger\_1 will show battery voltage of Bank 1, 2, 3 and then follow with charger firmware revision.

**Note2:** The combined chargers setting are based on the original setting on Charger 1. To readjust the combined charger setting, it has to be done through the Remote Display. Before connecting the batteries to the chargers, Battery Bank 1 of Charger\_1 has to connect to Battery Bank 1 of Charger\_2. Battery Bank 2 of Charger\_1 has to connect to Battery Bank 2 of Charger\_2 and Battery Bank 3 of Charger\_1 has to connect to Battery Bank 3 of Charger 2. The Common Ground of both chargers has to be connected together. Damage to both chargers may occur with wrong connection if the above connections are not follows.

**Tips:** During installation or unit setting, it is recommended to pre-set the desire charger setting on Charger\_1 first before connect the 2nd RJ12 cable to Charger\_2, as once Charger\_2 is connected, all the three push button on the charger is disable and the display will only show 'Con' and the setting can only be adjusted by using the Remote Panel.

**Important:** The charger that is connected to 'Com 1' of the Remote Panel is the master control.

- Connect one end of the second RJ12 cable to 'Com 2' of Remote Panel.
- Connect the other end of RJ12 cable to the 'Remote' Port of the second charger (Charger\_2).

**Important:** The two Chargers that are connected in parallel must be the same model and rating even if some of the banks may not be in use.

- Connect Battery Bank 1, 2, 3 of Charger\_1 to Battery Bank 1, 2, 3 of Charger\_2 respectively.

**Important:** Incorrect connection of different banks between the two chargers may damage the units.

- Connect the Common Ground of both chargers together.

**Important:** If Battery Temperature Sensor is in use, two battery temperature sensors are required. Connect the first battery sensor connected to Charger\_1 to the positive terminal of Bank 1 and the second battery sensor connected to Charger\_2 to the negative terminal of Bank 1.