

KISAE - Abso Charger Remote Panel ACRM1201

Installation and Operation Guide

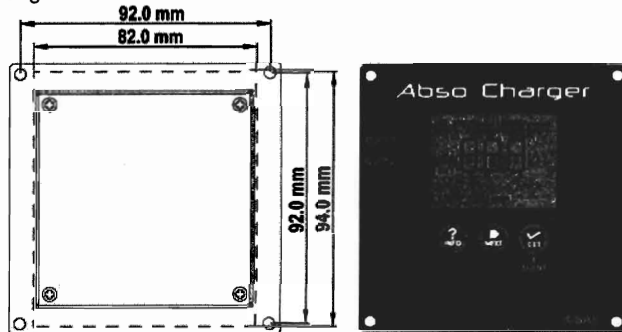
A qualified technician is required to install the Remote Panel to the AC charger. Take caution when working with battery. Always disconnect the AC Power before you make any installation.

WARNING: Shock, fire and energy hazards.

This Remote Panel is to be used with KISAE **AC12XX** Series for single charger operation and KISAE **AC24XX** Series for single or 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 KISAE AC12XX Series with single charger unit operation:

- Install the RJ45 Cable in your desired location.
- Connect one end of the RJ45 cable to 'Com 1' of Remote Panel. Please note the polarity.
- Secure the Remote Panel.
- Connect the other end of RJ45 cable to the 'Remote' port of the 12V charger. Please note the polarity.
- The Remote Panel is now ready to use.

Important: The **AC12XX** Series cannot be operated in parallel, and 'Com 2' on the Remote Panel is not used. Please do not connect the 12V charger to 'Com 2', or connect a second 12V charger to 'Com 2'.

For use with KISAE AC24XX Series with single charger unit operation:

- Install the RJ45 Cable in your desired location.
- Connect one end of the RJ45 cable to 'Com 1' of Remote Panel. Please note the polarity.
- Secure the Remote Panel.
- Connect the other end of RJ45 cable to the 'Remote' port of the 24V charger. Please note the polarity.
- The Remote Panel is now ready to use.

Important: The **AC24XX** Series can be operated in parallel. See below section for 24V Charger parallel operation.

For use with KISAE AC24XX Series with two 24V Chargers with same Amperage rating operating in parallel:

- Install two RJ45 cables in your desired location.
- Connect one end of the first RJ45 cable to 'Com 1' of Remote Panel. Please note the polarity.
- Connect the other end of RJ45 cable to the 'Remote' Port of the 24V charger (Charger_1). Please note the polarity.

Important: The 24V charger that is connected to 'Com 1' of the Remote Panel is the master control.

- Connect one end of the second RJ45 cable to 'Com 2' of Remote Panel. Please note the polarity.
- Connect the other end of RJ45 cable to the 'Remote' Port of the second 24V charger (Charger_2). Please note the polarity.

Important: The two 24V 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: Misconnecting on different banks on the two chargers may damage the units.

- Connect the Common Ground of both chargers together.

Important: If Battery Temperature Sensor (BTS-10k) 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.

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 Remote Panel use on two 24V chargers in parallel:

- To install the optional Remote Display in a specific location, two 6 pin standard RJ12 cables (maximum length 25 ft) are required.
- 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.