

TRUEcharge3 Remote Panel Guide

PN: 808-8040-10 <https://www.xantrex.com/>



⚠️ DANGER

HAZARD OF FIRE, ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

This TRUEcharge3 Remote Panel Guide is in addition to, and incorporates by reference, the relevant product manuals for each product in the power system. After reviewing this guide you must read the relevant product manuals. Unless specified, information on safety, specifications, installation, and operation is as shown in the primary documentation received with the product. Ensure you are familiar with that information before proceeding.

Failure to follow these instructions will result in death or serious injury.

Exclusion for Documentation

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Product Name and Number: TRUEcharge3 Remote Panel | 808-8040-10

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Introduction

The Remote Panel is an optional accessory to the TRUEcharge3 Battery Charger series. Its primary purpose is to provide remote access to the charger's settings using a familiar interface such as the charger's own onboard control and display panel. This allows the charger unit to be hidden in a safe compartment in the vehicle while its operation can be accessed safely and conveniently from a control station inside (or outside) the vehicle cabin.

This package includes:

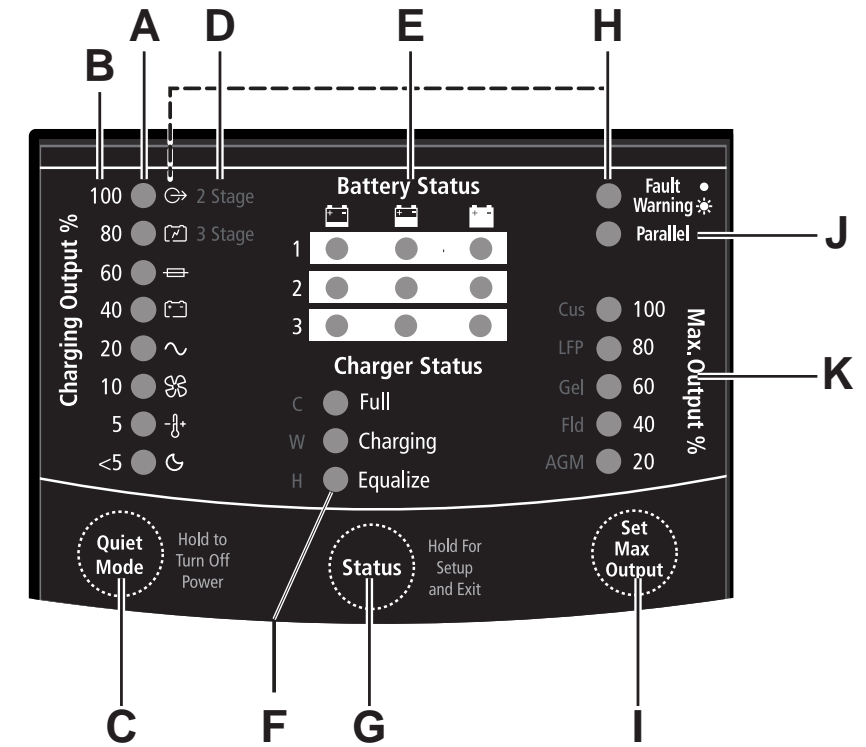
1. TRUEcharge3 Series Remote Panel unit (Product Number: 808-8040-10)
2. Two 7.6 m (25 ft.) communications cables
3. Owner's Guide with mounting template
4. 1½" NPT locknut (for mounting)

About the TRUEcharge3 Series Remote Panel

The Remote Panel can be used to:

- Set the charger to on or standby,
- Adjust maximum charger output settings,
- Program the charger for battery temperature,
- Activate and terminate equalization for [F]ode[d] batteries,
- Monitor charger status and output,
- Enable/disable quiet mode,
- Display the battery type and charge stage settings,
- Display faults and warnings,
- Display individual battery bank status, and
- Operate two chargers connected in parallel to increase output capacity.

Figure 1 Remote panel features



Item	Description
A	<p>Charging Output (%) LEDs</p> <p>The LEDs illuminate like a bar graph displaying the present total output charge current as a percentage of the maximum rated charge current. For example, unit model TRUEcharge3 12VDC 40A has a maximum rated charge current of 40 A so at 60% (that is, the LED is lit) the charger's current output is 24 A.</p> <p>NOTE: When the maximum Charge Output current is limited by pressing the Set Max Output button, the LEDs will still display the total charge output current as a percentage of the maximum charge current and NOT as a percentage of the limited charge current.</p> <p>An LED may flash intermittently in combination with a solid Fault LED to indicate a fault or with a flashing Fault LED to indicate a warning condition. The icons on the right side of the LEDs represent different types of faults and warnings.</p>
B	The numbers on the Charging Output (%) LEDs represent the percentage values.
C	<p>Quiet Mode Button</p> <ul style="list-style-type: none"> • Press, hold for three seconds, and quickly release to enable (🔊 flashing) or disable (🔇 off) Quiet Mode. • Press and hold for five seconds to disable the charger. The LEDs on the panel will all turn off. • Press and hold for eight seconds to enable the charger. If AC power is connected then LEDs on the panel will turn on. <p>To set or cancel an Equalization program: Press and hold both the Status and on/standby buttons for more than five seconds.</p>
D	<p>Only during Setup mode, a solid light on either LED indicates which charging profile is used. Each setting optimizes the charging sequence differently in charging the batteries by stages.</p> <ul style="list-style-type: none"> • 3 Stage - Bulk, Absorption, and Float; default setting • 2 Stage - Bulk and Absorption only

Item	Description
E	<p>Battery Status LEDs</p> <p>Displays the present status of each battery (or battery bank) – available only on the Remote Panel. Each row represents the battery (or battery bank) number designation—1, 2, or 3. Each column represents Low, Medium, or Full battery capacity.</p> <p>NOTE: These levels are measured and the status updated at the start of each stage in the charge cycle during charging, on demand when AC is disconnected and the Status button is pressed, or whenever AC is cycled.</p> <ul style="list-style-type: none"> • Low if battery voltage is below 11.9 V (23.8 V for 24 VDC systems) • Medium if the voltage is 11.9 to 12.4 V (23.8 to 24.8 V for 24 VDC systems) • Full if the voltage is above 12.4 V (24.8 V for 24 VDC systems)
F	<p>Charger Status LEDs</p> <p>Displays the present status of the charger.</p> <ul style="list-style-type: none"> • FULL - a solid light indicates that all batteries are fully charged and in rest stage. • Charging - a solid light indicates that batteries are fully charged and in float stage. A flashing light indicates that the charger is performing a normal charge cycle. • Equalize - a solid light indicates that the charger is performing an equalization cycle. A flashing light indicates that the equalization cycle will begin after the absorption stage is done.
G	<p>Status Button</p> <p>NOTE: The LEDs will flash intermittently when the Remote Panel goes into Setup Mode.</p> <ul style="list-style-type: none"> • Press and hold for five seconds to enter Setup Mode. <p>When in Setup Mode: Press to select the Battery Temperature: Cold, Warm, or Hot.</p> <p>NOTE: If the optional BTS is used, the battery temperature setting is adjusted automatically.</p> <ul style="list-style-type: none"> • Press and hold for five seconds to save settings and exit Setup Mode. <p>When setting or cancelling an Equalization cycle or program: Press and hold both the Status and Quiet Mode buttons.</p> <p>When AC is disconnected: Press to view battery status.</p>

Item	Description
H	<p>Fault/Warning LED</p> <p>The LED displays a solid light to indicate a fault condition or flashes intermittently to indicate a warning condition. Faults or warnings are displayed in combination with a flashing Charging Output (%) LED to indicate the type of fault or warning (dotted line).</p>
I	<p>Set Max Output Button</p> <p>Press to select and limit the maximum charge current. For example, the unit model TRUEcharge3 12VDC 40A has a maximum charge current of 40 A. Changing the Max Output setting from 100 to 80 will limit the maximum charge current to 32 A (80% of 40 A). It will also limit the equalization current if the Max Output is set to below 50%. This feature is available only on the Remote Panel.</p>
J	<p>Parallel LED</p> <p>The LED illuminates a solid light indicating that two TRUEcharge3 Battery Charger are in parallel configuration.</p>
K	<p>Max. Output (%) LED</p> <p>The LED illuminates a solid light corresponding to the Maximum Charger Output % setting.</p>

Installation

1. Choose a location for the remote panel that is within 7.6 m (25 ft.) from the charger. Use only the six-conductor communications cable (RJ-12) that comes with the package. If you require a longer communications cable, call Xantrex and order the 15.2 m (50 ft.) communications cable (part number: 31-6262-00).
2. Use the mounting template provided on the right to predrill a 48 mm (1.875-inch) hole where the threaded bracket at the back of the remote will go through and a small 3 mm (0.125-inch) hole where the stud pin will go. Take care that there is nothing behind the surface for you to damage such as other cables or pipes.
3. After making the holes, push the back of the remote panel through and secure the remote panel in place by screwing the locknut (provided) to the threaded bracket until fastened firmly to the wall.
4. Connect the RJ-12 connector to the remote panel's PRIMARY port and route it to the charger. Be careful not to damage the connector locking tab when routing the cable. You can protect the locking tab by covering it with tape temporarily to prevent it from catching on something and breaking off when routing the cable.
5. Once the TRUEcharge3 Battery Charger is mounted, plug the other RJ-12 connector into the Remote port on the rear panel of the primary TRUEcharge3 Battery Charger.
6. If two TRUEcharge3 Battery Charger will be operated in parallel, connect the second communications cable to the remote panel's second RJ-12 port. Connect the other end of the cable to the secondary charger's Remote port.

IMPORTANT: If the remote panel does not turn on automatically when you first connect it to a powered TRUEcharge3 Battery Charger, cut power to the battery charger by disconnecting the AC source (via the AC breaker switch) and disconnecting the batteries (via the DC disconnect switch). Wait one minute before returning power to the battery charger.

To Enter/Exit Setup Mode

- Press and hold the Status button for five seconds to enter Setup mode. Entering Setup mode will enable you to program the charger for battery temperature.
- Press and hold the Status button for five seconds to exit Setup mode.

Configuring the Battery Temperature

1. Enter setup mode.
2. Press Status button to select the battery temperature.
3. Exit setup mode.

Configuring the Maximum Output Current Percentage of the Charger

NOTE: By default, the Max. Output % is set to 100.

- Press the Set Max Output button to select the appropriate maximum output setting.

The LEDs will indicate which of the five values is being selected: 100, 80, 60, 40, or 20.

NOTE: The equalization charge current may be affected. See note under Description for Set Max Output Button.

NOTE: If operating two TRUEcharge3 Battery Chargers in parallel, configuration settings made via the remote panel or primary charger will be applied to both chargers. Settings cannot be changed via the secondary charger.

Specifications

NOTE: Specifications are subject to change without prior notice.

DC input voltage range	+10.5–15 VDC
Operating DC voltage range	+9–15 VDC
Input current range	30 mA (60 mA at LED test)
Operating ambient temperature	0–50 °C 32–122 °F
Dimensions (L×W×H)	114.64 × 44.39 × 89.64 mm 4 9/16 × 1 3/4 × 3 9/16 in.

EMC Information to the User

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION

Unauthorized changes or modifications to the equipment could void the user's authority to operate the equipment.

Mounting Template

NOTICE

Due to printing variations, the template shown may not be scaled 1:1. Verify measurements before proceeding.

