Freedom X Remote Panel
PN: 808-0817 / 808-0817-01   User Guide

1 Introduction

Thank you for purchasing the Freedom X Remote Panel. This user guide will help you install and use the remote panel to operate and configure the Freedom X and XC series remotely.

What's In The Box

Check that you have the following items in the box before proceeding.
- the Freedom X remote panel unit
- user guide and mounting template
- 25-ft. 6-conductor com cable kit (808-0817-01 unit only)

⚠⚠ DANGER

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

This Freedom X Remote Panel User Guide is in addition to, and incorporates by reference, the relevant product manuals for each product in the Freedom X series. Before 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

UNLESS SPECIFICALLY AGREED TO IN WRITING, SELLER (A) MAKES NO WARRANTY AS TO THE ACCURACY, SUFFICIENCY OR SUITABILITY OF ANY TECHNICAL OR OTHER INFORMATION PROVIDED IN ITS MANUALS OR OTHER DOCUMENTATION; (B) ASSUMES NO RESPONSIBILITY OR LIABILITY FOR LOSSES, DAMAGES, COSTS OR EXPENSES, WHETHER SPECIAL, DIRECT, INDIRECT, CONSEQUENTIAL OR INCIDENTAL, WHICH MIGHT ARISE OUT OF THE USE OF SUCH INFORMATION. THE USE OF ANY SUCH INFORMATION WILL BE ENTIRELY AT THE USER'S RISK; AND (C) REMINDS YOU THAT IF THIS MANUAL IS IN ANY LANGUAGE OTHER THAN ENGLISH, ALTHOUGH STEPS HAVE BEEN TAKEN TO MAINTAIN THE ACCURACY OF THE TRANSLATION, THE ACCURACY CANNOT BE GUARANTEED. APPROVED CONTENT IS CONTAINED WITH THE ENGLISH LANGUAGE VERSION WHICH IS POSTED AT HTTP://WWW.XANTREX.COM.

FCC 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 the receiver.
- Connect the equipment to a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

2 What's Required

If you received the 808-0817 unit, you need to acquire the following 6-conductor cable kit from Xantrex. Go to http://www.xantrex.com/power-products-support to order.
- 25-ft. 6-conductor com cable kit (PN: 31-6257-00)
- 50-ft. 6-conductor com cable kit (PN: 31-6262-00)

Installation

1. Prepare the remote panel unit and the 6-conductor com cable kit.
2. Choose a location for the remote panel unit within reach of the com cable and the inverter unit.
3. Use the mounting template (in section A) to make the installation of the remote panel easier.
4. Mount the remote panel unit.

3 Features

Status LED indicators

Function buttons
- ESC button
- Scroll button
- OK button
- Power button

LCD screen

Function Buttons

ESC	return to default screen or exit setting mode
∧	next screen or next selection
OK	to enter the setting mode or to confirm the setting
⏻	turns the inverter unit on or off **NOTE**: Only when the inverter's Power button is off

Status LED Indicators

Indicator	Description
solid green	Indicates grid mode in which shore power is available and passing through to the loads and charging the battery.
solid green	Indicates battery mode (inverter mode) in which the inverter is running and supplying power to the loads from the battery.
solid red	Indicates error or fault mode and is accompanied by an error code displayed on the LCD screen.
flashing red	Indicates a warning condition and is accompanied by an error code and a sounding alarm.

LCD Screen

Icon	Description
AC	AC input and output indicator.
88 ⊘	The wrench icon underneath a number is displayed during configuration mode.
88 ERROR	An error event with its corresponding number is displayed here.
88 ⚠	A warning event with its corresponding number is displayed here.
🔋	The battery icon indicates remaining battery power. One bar = 1-25%, two bars = 25-50%, three bars = 50-75%, and four bars = 75-100%.
OVERLOAD	Shows an AC output overload condition.
💡	The load icon is displayed if there is voltage available at the AC output.

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Icon	Description
100% 25%	The bar represents load consumption levels. 100% is an indication of full capacity and 25% indicates low consumption. All the bars disappear at < 20 watts, and AC load indicates zero watt power.
∿	Shows up in grid mode when AC shore power is present. If the power is being qualified, then this icon will flash.
BYPASS	Shows that the unit is in grid mode and is bypassing shore power directly to the loads.
⊠	This icon shows when there is power conversion from AC to DC - charging. Applicable only to Freedom XC units.
⊠	This icon shows when there is power conversion from DC to AC - inverting.
🔇	The alarm buzzer is muted. For more information, see Freedom inverter's Owner's Guide.

④ Viewing Information During Battery Mode

Press scroll [∧] to move to the next screen. Press [ESC] to return to the home screen ①.

battery voltage = 12.5V, AC load = 1.2kW

output voltage = 120V, output frequency= 60Hz

input voltage = 120V, input frequency = 60Hz

Inverter firmware version = U1 1.01

Remote panel firmware version = U2 1.10
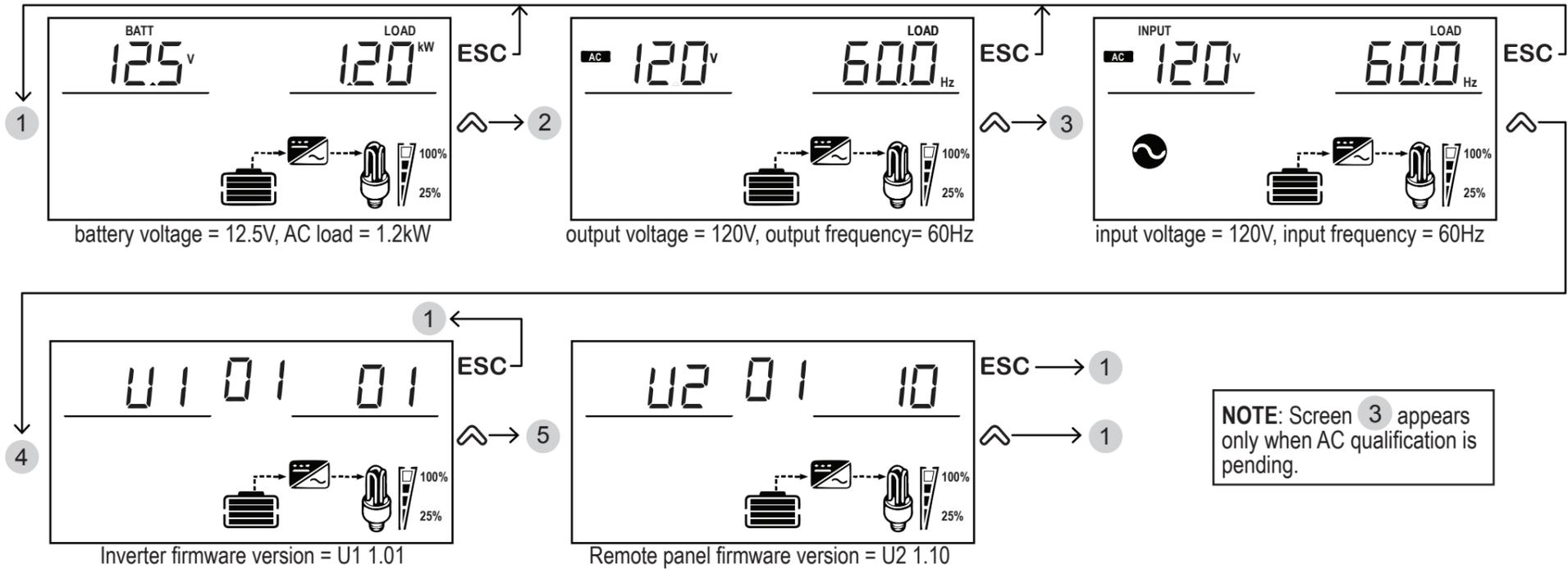
NOTE: Screen ③ appears only when AC qualification is pending.

⑤ Viewing Information During Grid Mode

Press scroll [∧] to move to the next screen. Press [ESC] to return to the home screen ①.

battery voltage = 12.5V, charging = no charging

input current = 15.6A, load current = 6.8A

input voltage = 120V, input frequency = 60Hz

Inverter firmware version = U1 1.01

Remote panel firmware version = U2 1.10
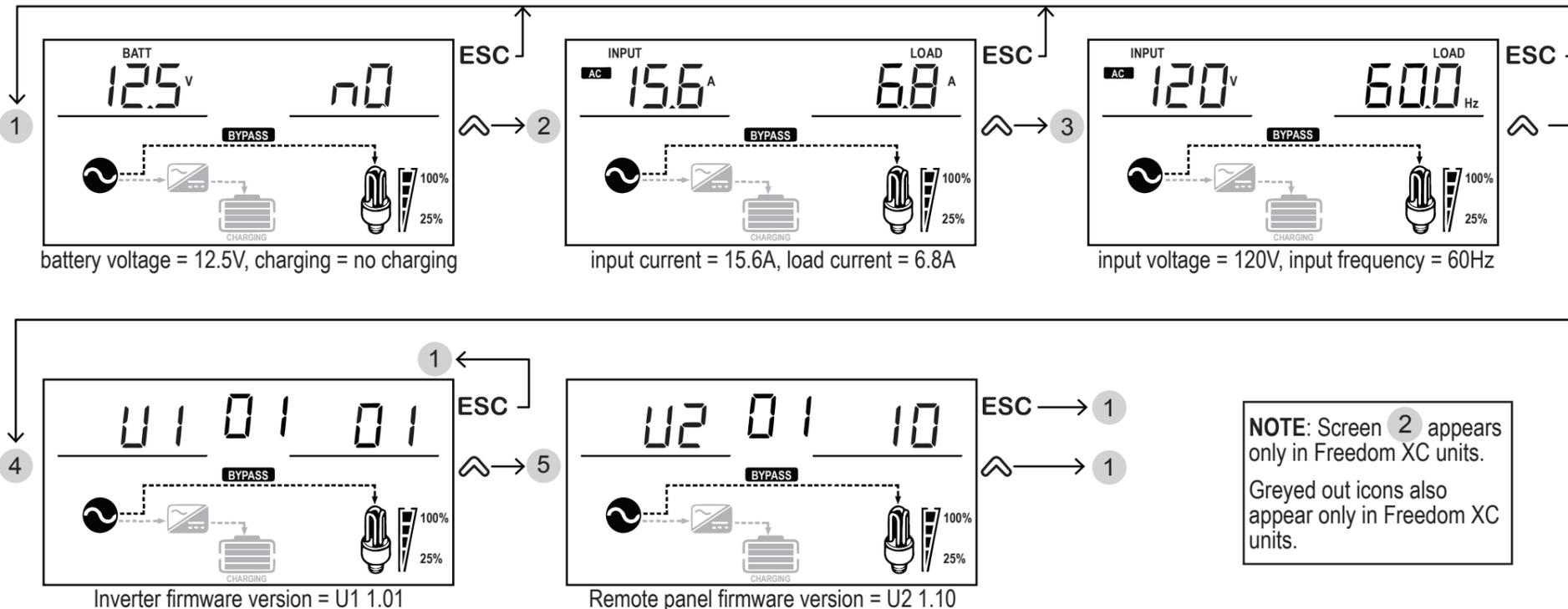
NOTE: Screen ② appears only in Freedom XC units.

Greyed out icons also appear only in Freedom XC units.

⑥ Adjusting Feature Settings

1. Press and hold the [OK] button for three seconds to enter the feature settings mode.

2. Press the scroll [∧] button to move through the different feature settings.

   NOTE: See the Freedom X / XC Owner's Guide for information on the individual settings.

3. Press the [OK] button to select a setting number and change its value.

4. Press the scroll [∧] button to change the value until you reach the desired value.

5. Press the [OK] button to confirm the change.

6. Repeat previous steps to set other feature settings.

7. Press [ESC] to exit the feature settings mode.

   NOTE: It may take a minute for the settings to take effect on the inverter unit.

Contact Information
http://www.xantrex.com
Please contact your Xantrex Sales Representative or visit the Xantrex website at:
http://www.xantrex.com/power-products-support/

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A

107.0 mm

51.0 mm

mounting hole

mounting hole

recess outline

126.0 mm

38.0 mm

allow enough space for connecting the com cable plug
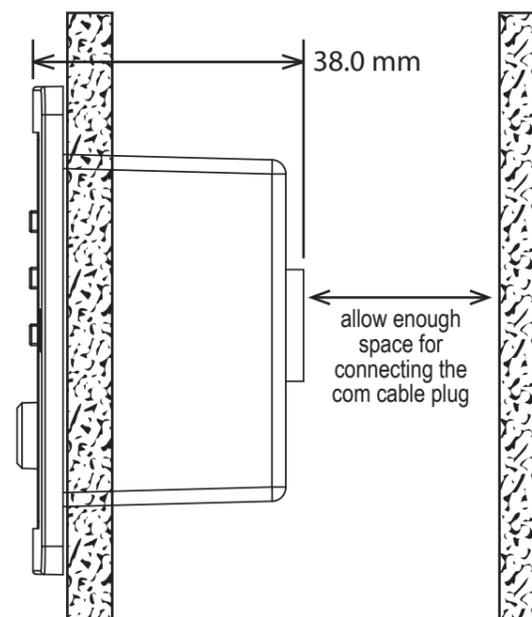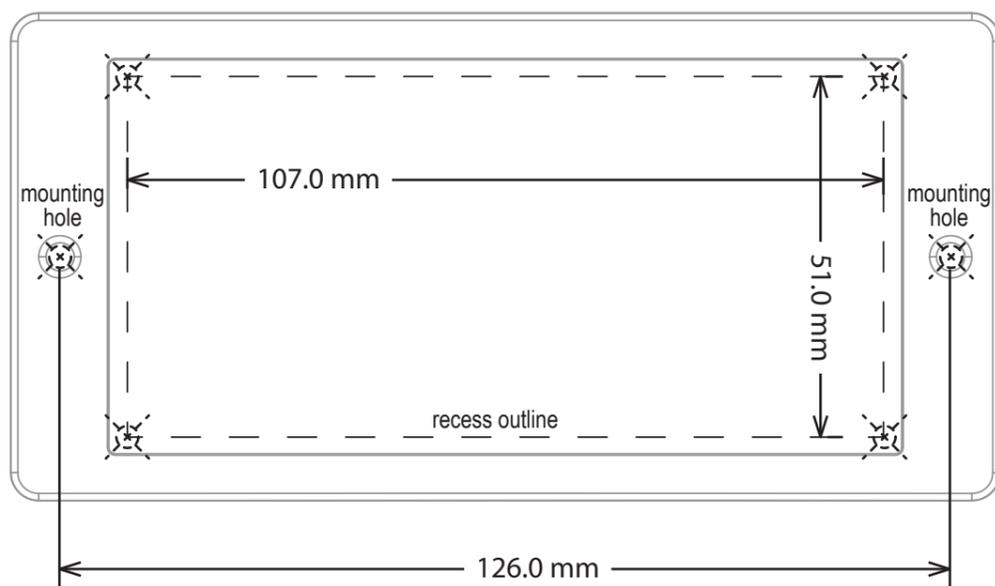
NOTE: Ensure the inside wall is free of obstructions, such as pipes, insulation, and electrical wiring.

Ensure the recess depth is more than 50 mm.

Installing the Remote Panel Unit on the Wall

1. Place the template on the wall.

2. Mark the corners (or trace the dotted lines) of the recess outline on the wall.

3. Mark the two mounting holes for the two screws on the wall.

4. Remove the template from the wall.

5. Cut along the recess outline on the wall to make a hole for the remote panel's body.

6. Pre-drill the mounting holes appropriate to the mounting screws (not provided) that will be used.

7. Connect the 6-conductor com cable to the RJ12 ports on the inverter and remote panel.

8. Mount the remote panel unit on the wall.

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