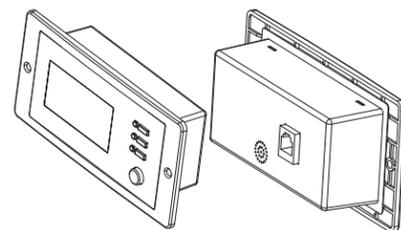


Freedom EX Remote Panel User Guide

Model Numbers: 808-0817-03



Freedom EX Remote Panel
Model number: 808-0817-03

⚠️ DANGER

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

This Freedom EX Remote Panel User 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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NOTE: Visit <http://www.xantrex.com>, click Products, select a Product category, select a Product, and search the Product Documents panel for a translation of the English guide, if available.

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Introduction

Thank you for purchasing the Freedom EX Remote Panel. This user guide will help you install and use the remote panel to operate and configure the Freedom EX remotely. The Freedom EX Remote Panel is exclusively used for the Freedom EX inverter/charger.

⚠️ Do not use with other inverter/chargers.

What's in the box

Check that you have the following items in the box before proceeding.

- the Freedom EX remote panel unit
- user guide and mounting template
- 25-ft. 6-conductor cable kit (PN: 31-6257-00)

What's optional

Acquire a longer 6-conductor cable from Xantrex. Go to <http://www.xantrex.com/power-products-support> and order the 50-ft. 6-conductor cable kit (PN: 31-6262-00)

FCC/IC Information to the User

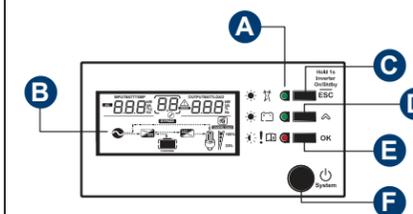
This device complies with Part 15 of the FCC Rules / ISED Canada Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference. (2) This device must accept any interference received, including interference that may cause undesired operation.
NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC / ISED Canada ICES-003 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.
WARNING: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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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.
5. Route and wind the com cable two times through the ferrite core before extending the connector to the Remote port of the inverter/charger unit.

Function Buttons



NOTE: Briefly pressing any function button activates backlight illumination. After 60 seconds of inactivity, backlight illumination turns off.

- A** Status LED indicators
- B** LCD screen
- C** ESC button - will return to default screen or exit setting mode
NOTE: One long press (hold for 1 sec) will toggle between turning inverter On or Standby.
- D** Scroll button - next screen or next selection
- E** OK button - enter the setting mode or to confirm the setting
- F** Power button - turns the inverter unit On or Standby (operates only when the inverter's Power button is off)

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Status LED Indicators

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

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LCD Screen

NOTE: For a complete listing and description of the icons, see the Freedom EX Owner's Guide.

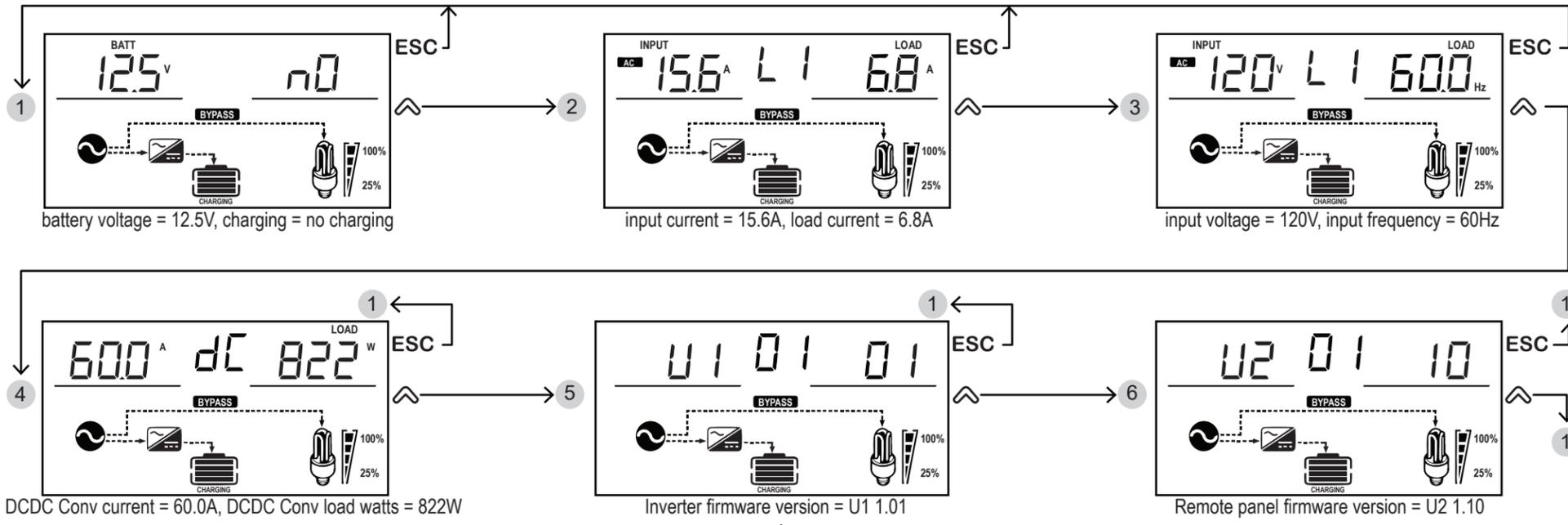
	AC input and output indicator.
	The wrench icon underneath a number is displayed during configuration mode.
	An error event with its corresponding number is displayed here.
	A warning event with its corresponding number is displayed here.
	The battery icon indicates remaining battery power. One bar = 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.
	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 EX 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.

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Viewing Information During Battery Mode

NOTE: Screen 3 appears only when AC qualification is pending.



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

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Adjusting Feature Settings

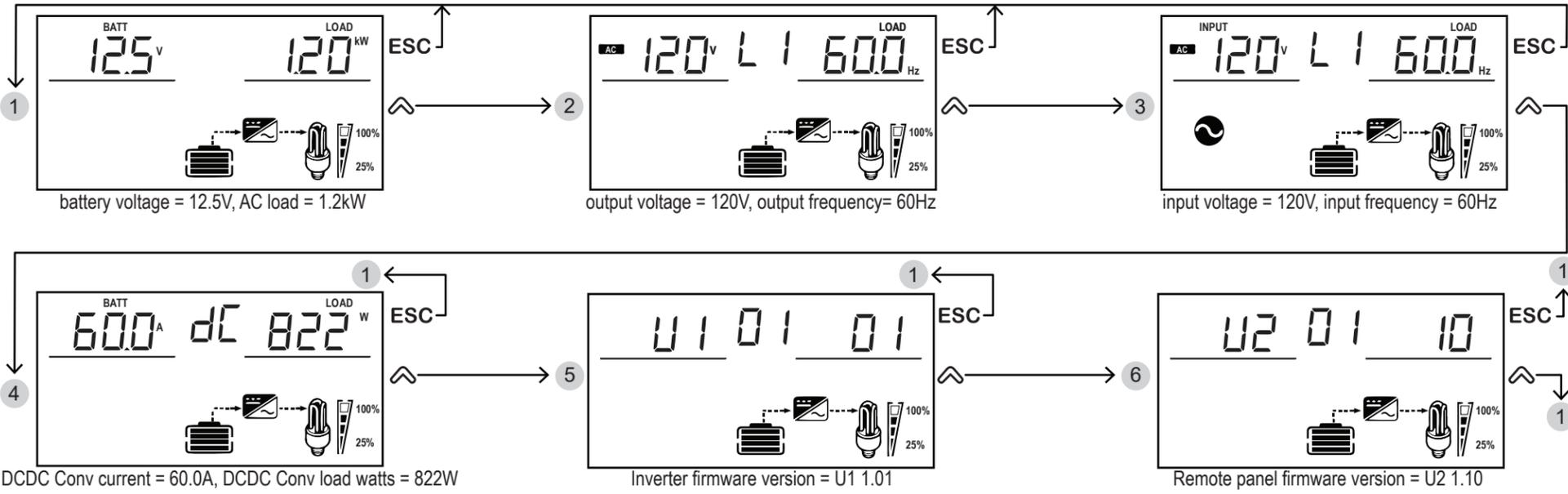
NOTE: See the Freedom EX Owner's Guide for information on the individual settings.

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.
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.

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Viewing Information During Grid Mode

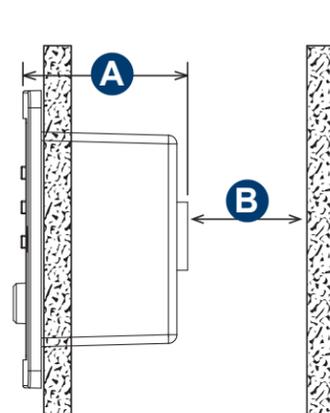


Press scroll [↔] to move to the next screen. Press [ESC] to return to the home screen.

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Installing the Remote Panel Unit on the Wall

1. Place the template (*Figure 1*) 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.

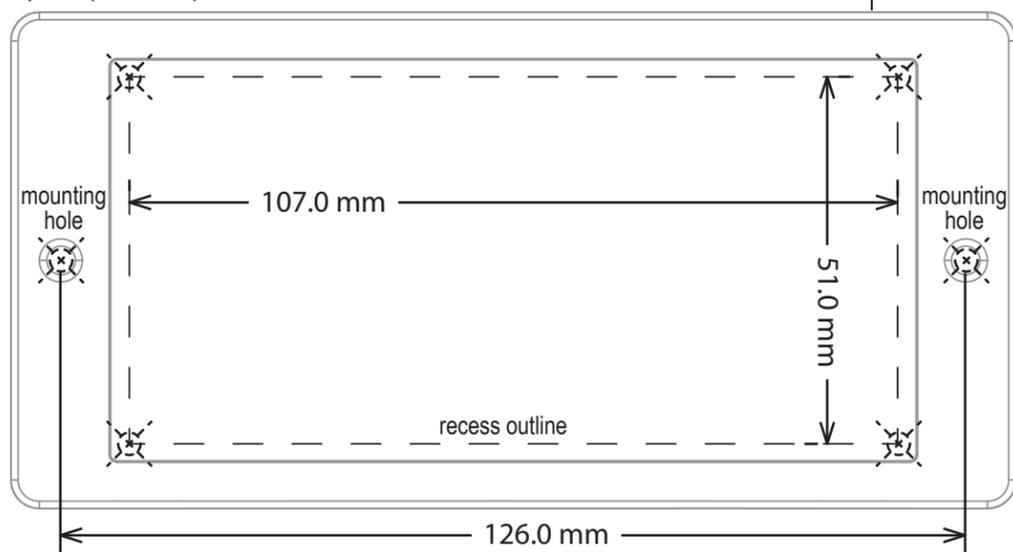


A 38 mm

B 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.

Figure 1 Template (scale 1:1)



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