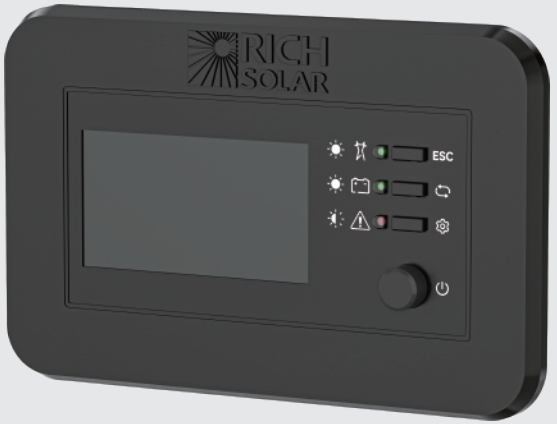
REMOTE METER

User Manual



MODEL: RS-RM02

THIS MANUAL CONTAINS IMPORTANT SAFETY AND OPERATING INSTRUCTIONS FOR REMOTE METER. PLEASE READ THIS MANUAL AND FOLLOW THE INSTRUCTIONS EXACTLY.

⚠⚠ DANGER

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

This NOVA Remote Panel user guide is in addition to, and incorporates by reference, the relevant product manuals for each product in the NOVA 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.

Introduction

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

What's In The Box

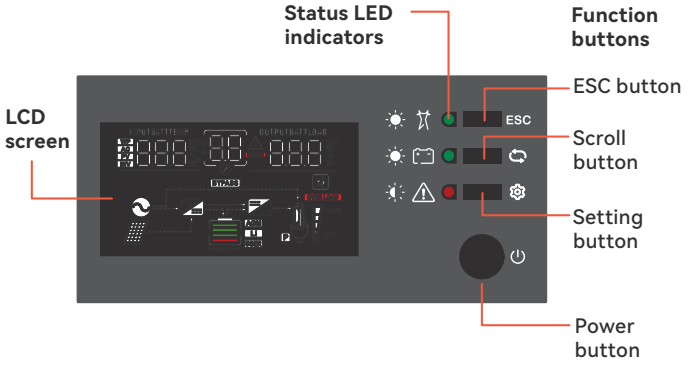
Check that you have the following items in the box before proceeding.

- the NOVA remote panel unit
- user guide
- 25-ft. 6-conductor cable kit

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. Make holes refer to mounting size.
4. Mount the remote panel unit.

Features



Function Buttons

ESC	return to default screen or exit setting mode
	next screen or next selection
	to enter the setting mode or to confirm the setting
	turns the inverter unit on or standby **NOTE:** Only when the inverters Power button is off

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

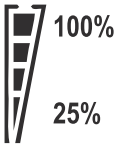
Status LED Indicators

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

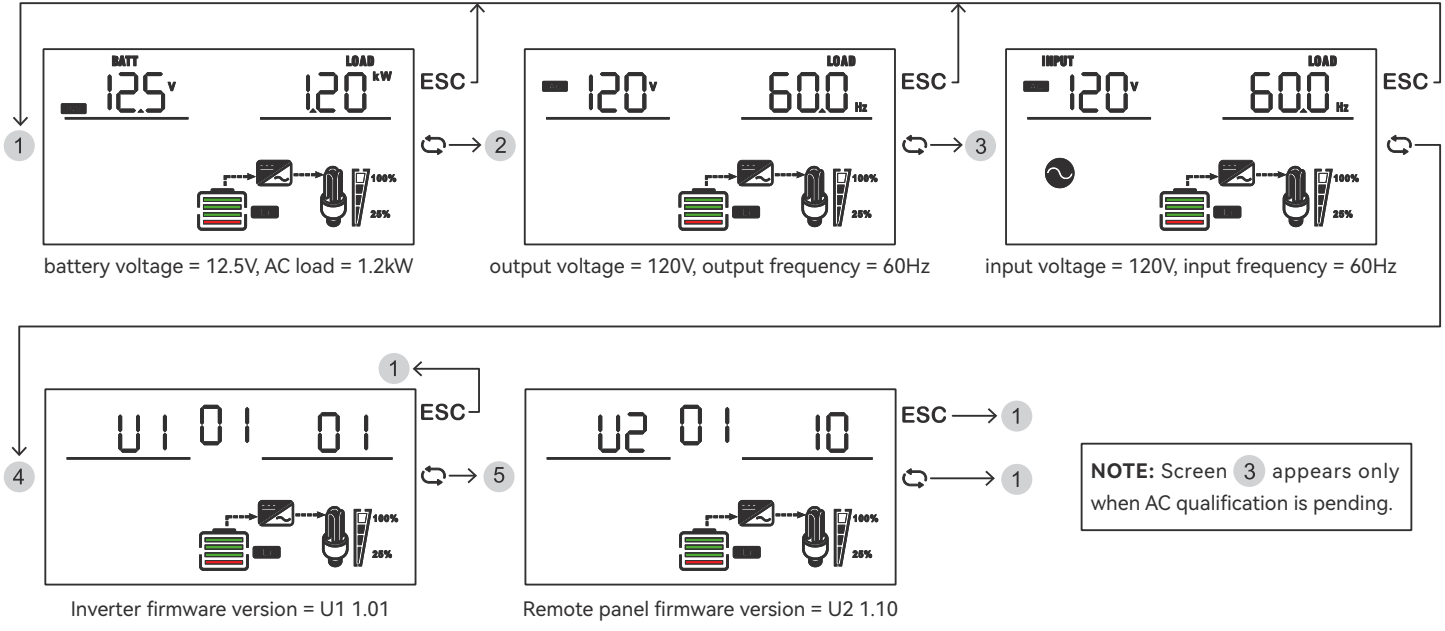
NOTE: For a complete listing and description of the icons, see the Owners Guide of the inverter or inverter/charger unit.

AC	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%.
OVER LOAD	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 NOVA Charger unit.
	This icon shows when there is power conversion from DC to AC - inverting.
	The alarm buzzer is muted. For more information, see NOVA inverters Owners Guide.
AGM Li USER	This icon shows that what type of battery it is.

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

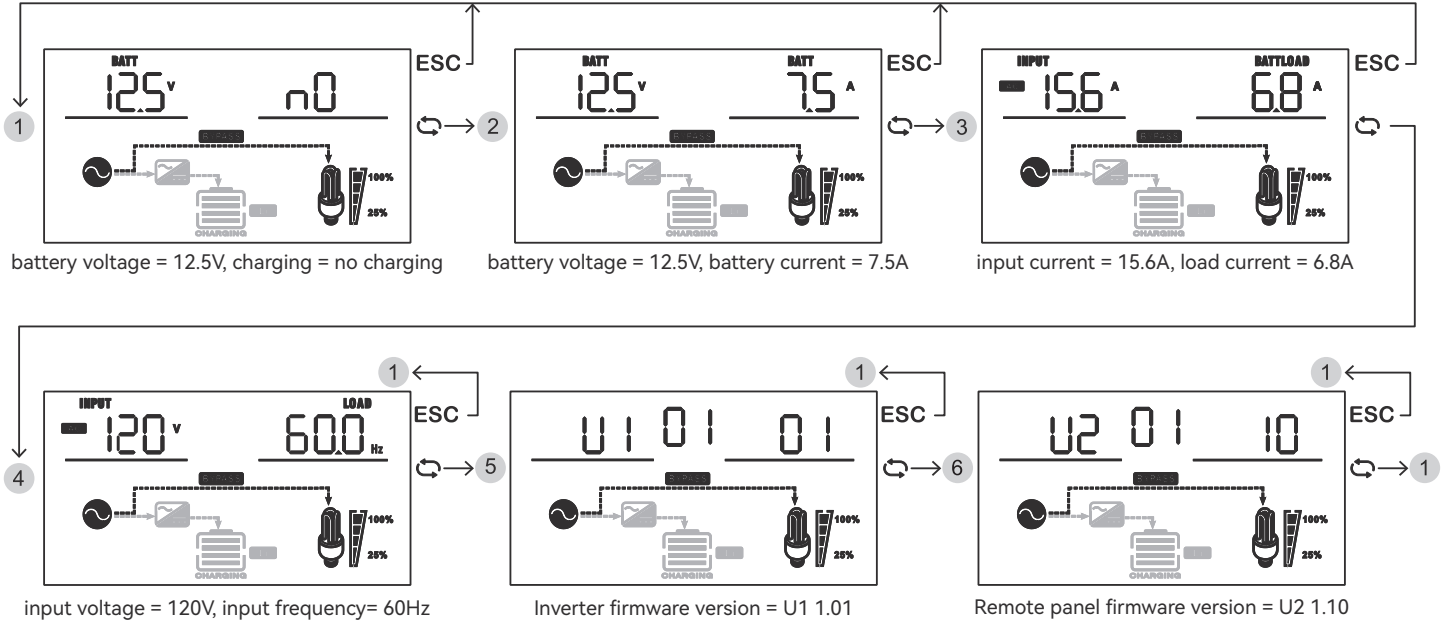
Inverter firmware version = U1 1.01

Remote panel firmware version = U2 1.10

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

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

battery voltage = 12.5V, battery current = 7.5A

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 NOVA Charger units.
Greyed-out icons also appear only in NOVA Charger units.

Adjusting Feature Settings

1. Press and hold the [⚙] 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 NOVA Owners Guide for information on the individual settings.

3. Press the [⚙] 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 [⚙] 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.

Installing the Remote Panel Unit on the Wall

1. Positioning & Marking
Mounting height: 59in (1.5m) recommended.
Avoid water, heat, and obstructions.
Use a level and mark the center point.
Use the panel backplate as a template to trace the cutout and mark 4 screw holes (based on installation dimensions).

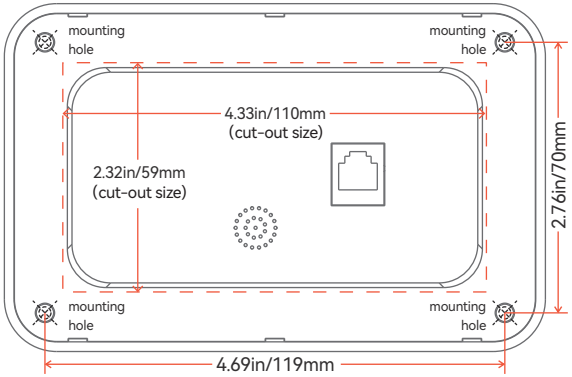
2. Cutting & Pre-Drilling
Cut the wall opening with a drywall saw, allowing 2-3mm extra for adjustment.
Drill mounting holes using a bit suitable for the wall material.

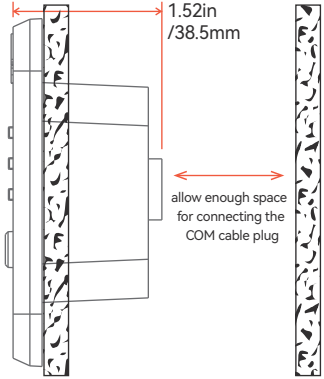
3. Cable Connection
Connect the 6-conductor COM cable to the RJ12 ports on both the inverter and remote panel.
Leave 4-6in (10-15cm) extra cable length for serviceability.
Secure cables with zip ties to relieve port strain.

4. Mounting & Securing
Remove the front cover by pressing the release tabs.
Insert the panel and route the cable through the rear opening.
Fasten with 4 screws (not included), tightening diagonally to avoid distortion.

5. Final Check
Power on and verify LED status for communication.
Ensure the panel is flush with the wall; use spacers if necessary.

Mounting Size





NOTE: Ensure the inside wall is free of obstructions, such as pipes, insulation, and electrical wiring.
Ensure the recess depth is more than 1.97in/50mm.

1-800-831-9889
support@richsolar.com
www.richsolar.com
1900 Mountain Ave, Norco, CA 92860