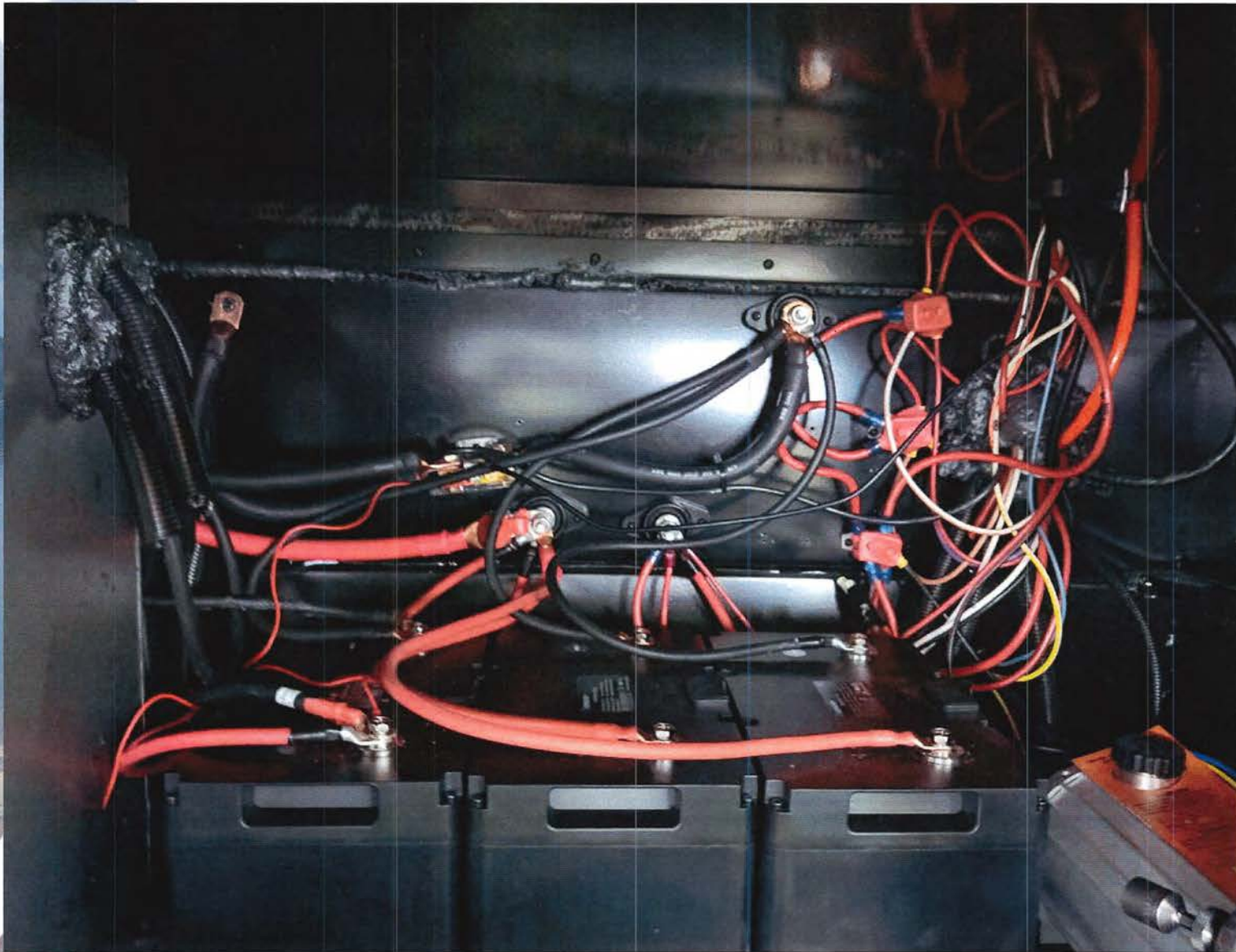
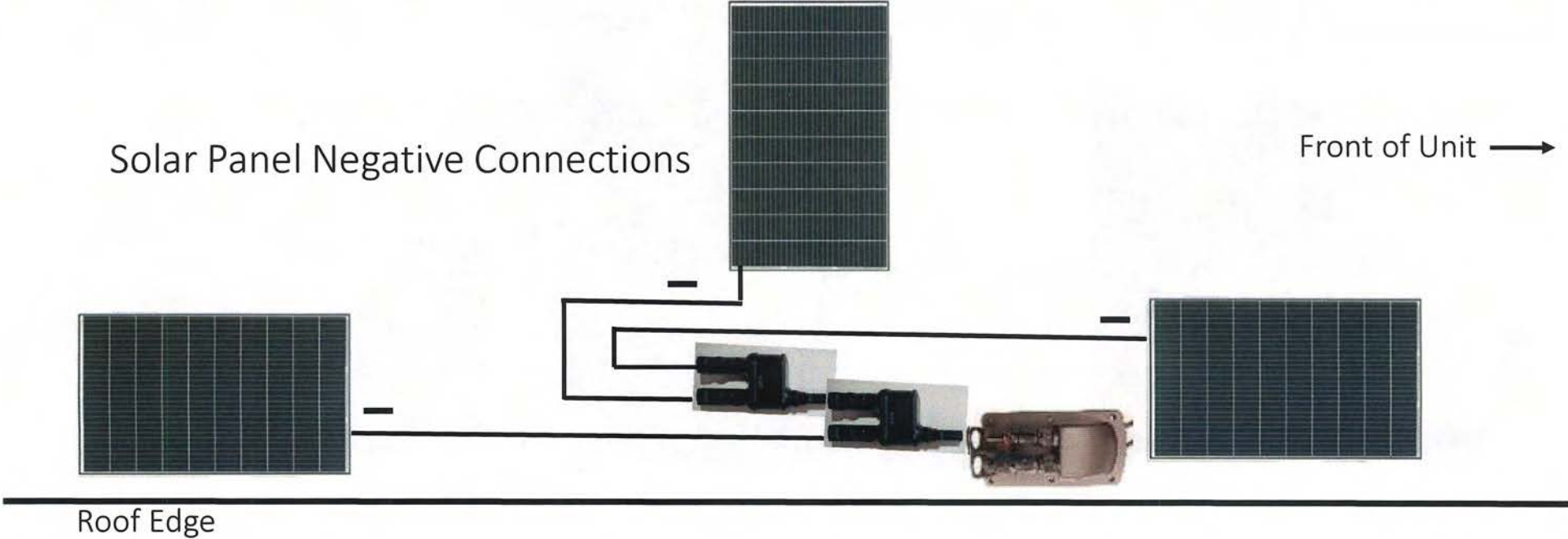
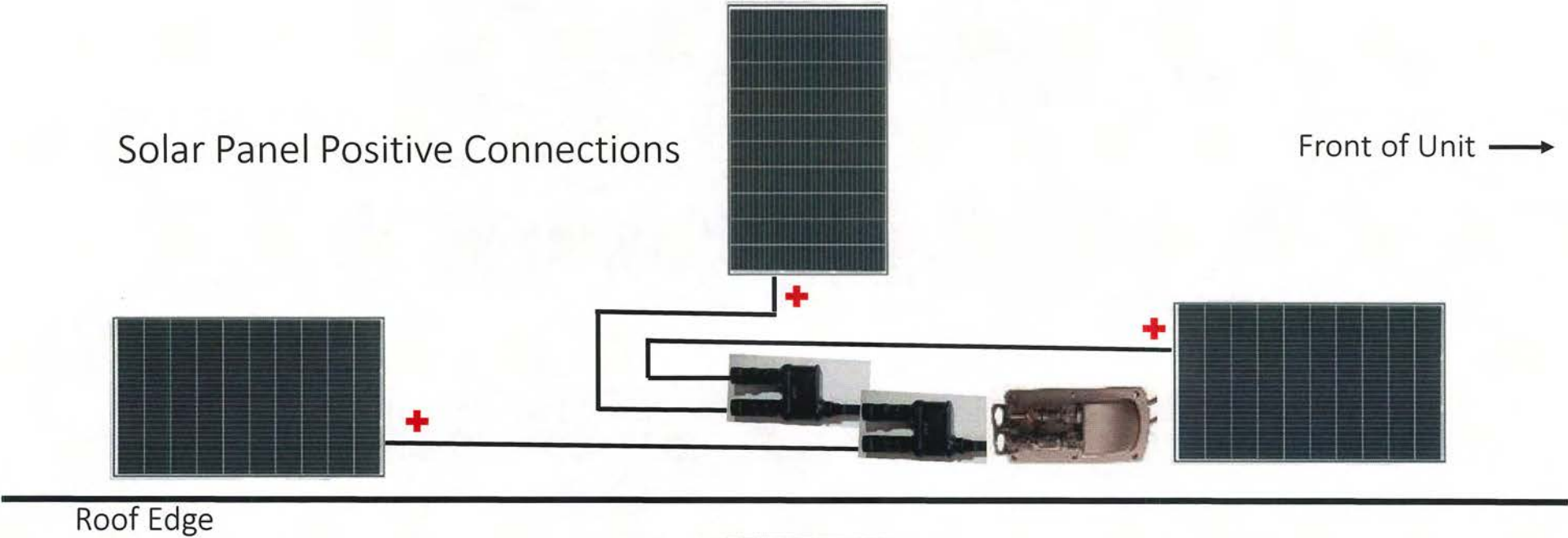
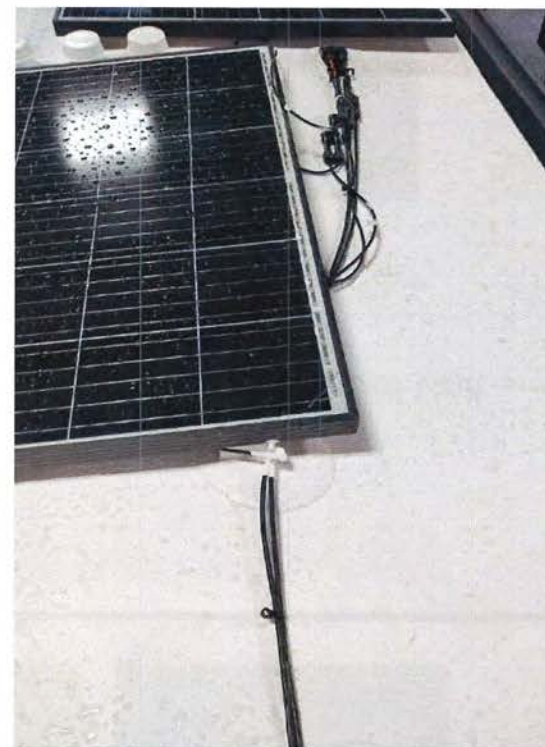
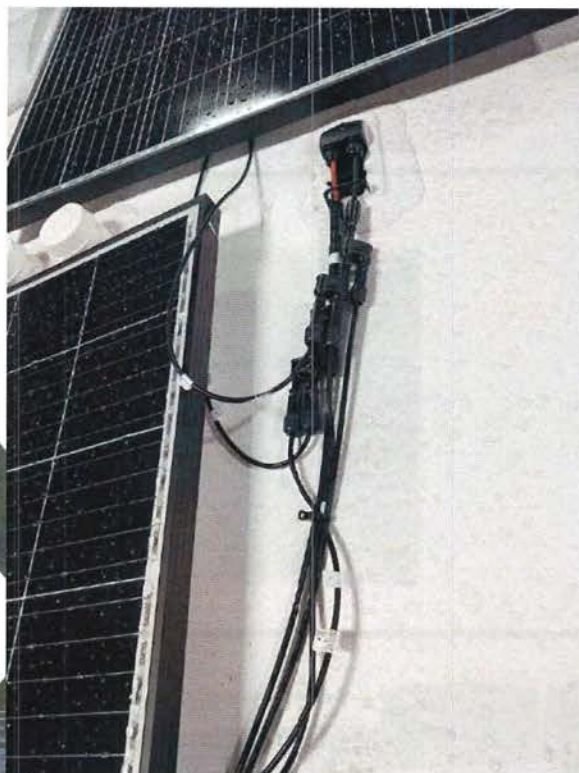


Wiring Schematic



Alliance RV Upgraded Solar Panel Layout





Alliance RV Upgraded Solar Panel Layout

Training to Calibrate Battery Monitor

Step 1 - To make sure that the battery bank is full

- Ignore the percent on the battery monitor until the monitor is calibrated.
- See battery monitor page to change the battery capacity.
- Plug into shore power and make sure Inverter is turned on.
- Check battery monitor and make sure batteries are charging.
- When Amps on the battery monitor get down to 0.02A (see pic to right), then the battery bank is full.
- Hold the up arrow on the battery monitor for 3 seconds and it will reset the battery monitor to show 100%.



Step 2 - When end user says they are not using any power and batteries die

- Always use the battery monitor and Intellitronix monitor to confirm current power (wattage) draw. The battery monitor will show the real-time charge/discharge on the whole system. The Inverter loads can be checked on the Intellitronix monitor. Cycle through the screens to see the watts being used on each circuit (see pic to right).

Appliances (AC Power)	Watts
Cooktop	1000-1500
GFI Outlet	varies
Air Conditioner	1400-2000
Microwave	1000-1500
Water Heater	1000-1500



Step 3 – How to shutoff AC Power to unit

- To maximize battery life turn the battery disconnect (pictured on right) off to ensure AC loads are off. Also, by turning off disconnect, the battery monitor will only show solar or alternator charging and not discharging.



Step 4 – Understanding how to read the Battery Monitor

- Between the volts and amps on the battery monitor will show whether the system is charging or discharging by the + (charging) and – (discharging). See 500A Battery Monitor pages for more details.

05 Setup Battery Type

The PCL inverter charger series is fully programmable. The minimum programming needed to get started would be to set the battery type. Press and hold the parameter setting key to enter parameter setting mode. Use the arrow keys to go to Program 05. Use the following table to set the appropriate battery type based on the boost voltage and float voltage that has been preset.

NOTE The PCL series is only compatible with 12V battery banks.

Program Number	Description	Parameter Setting	Boost Voltage	Float Voltage
05	Battery type For Charging to be accurate, Temperature Sensor must be connected.	Type of battery		
		Gel 1 05 b-1	14.0	13.7
		A.G.M.1 05 b-2	14.1	13.4
		A.G.M.2 05 b-3	14.6	13.7
		Sealed Lead Acid 05 b-4	14.4	13.6
		Gel 2 05 b-5	14.4	13.8
		Open Lead Acid / Flooded 05 b-6	14.8	13.8
		Calcium 05 b-7	15.1	13.6
		De-sulphation 05 b-8	15.5 for 4 hrs	
Li 05 b-L	When battery voltage reaches 14.7V charging will stop. When battery voltage drops below 12.5V charging will resume.			

NOTE Lithium charging is preset to 14.7V charging. When charging the battery and it reaches the 14.7V setpoint it will stop charging the battery. Upon normal use, when the voltage of the battery drops down to 12.4 and below, charging will resume.

3000W 12V PURE SINE WAVE INVERTER CHARGER W/ LCD DISPLAY

R-INV-T-PCL1-30111S

Step 1:

Program battery type on 3000W Inverter Charger by following directions to the left

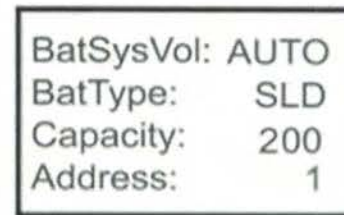
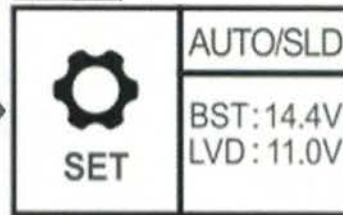
Step 2:

To SAVE the battery type selection, turn off the Inverter Charger at the remote switch first. Then the battery disconnect can be turned off. This order only needs to be done for initial setup.

How to change the settings for Rover 60A Charge Controller



STEP 1:
Press down arrow until screen displays below view, which is the Parameter Settings Screen



STEP 4:
Change these
BatSysVol: 12V
BatType: Li
Capacity: 300

STEP 2:
Press right arrow to change to this screen

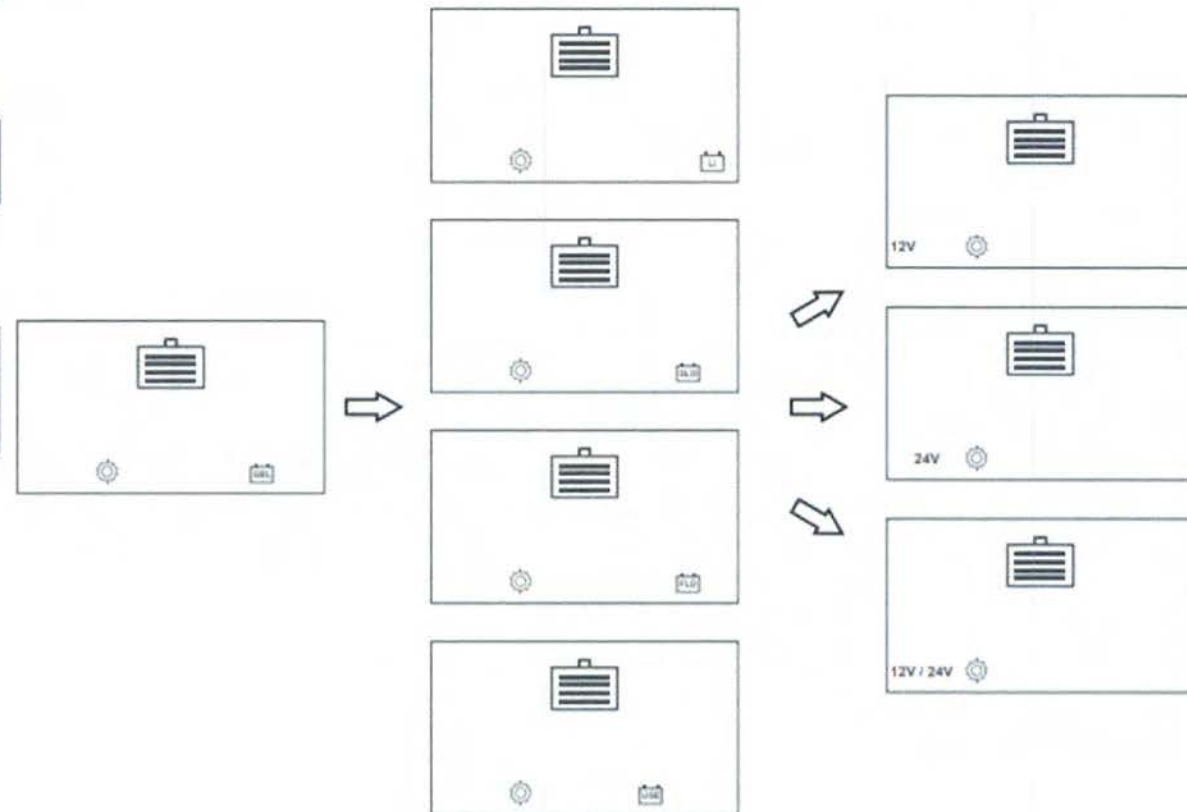
STEP 3:
Press up/down to toggle through settings. Settings that are highlighted when selected can be changed. Once the value is highlighted, then press the right arrow until value begins flashing.

How to change the Battery Type settings for Rover 40A Charge Controller



Programming Battery Type

To enter the battery programming settings hover over the Battery Voltage screen and press down the Enter button. When the battery type starts to flash press the Select button to cycle through the battery types and press Enter to finalize selection. When selecting the Lithium setting the user can change battery voltage from 12V to 24V and select the charging voltage.



How to change the Battery Type settings for Rover Elite 40A Charge Controller



2. Selecting Battery Type

WARNING

Incorrect battery type setting may damage your battery. Please check your battery manufacturer's specifications to when selecting battery type.

NOTE

If selecting Lithium and wanting to set Battery Voltage or Charge Parameters, go to "3. Select lithium Battery Voltage and Charge Voltage," later in this table. SEL is referring to AGM battery

In the screen showing the battery voltage, hold down RIGHT ARROW for approximately 3-5 seconds before the screen flashes the current battery type.



Once flashing, use the UP or DOWN ARROW to select the proper battery type and then hold down RIGHT ARROW again to lock in the selected battery type.

SEL

GEL

FLd

LI