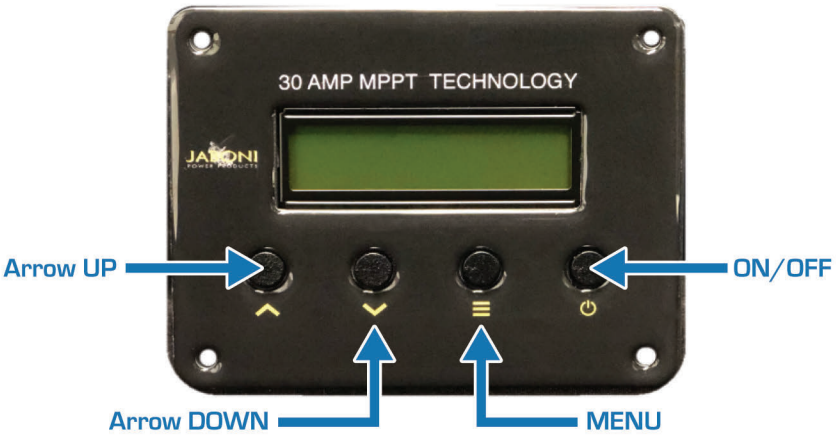
BASIC USER GUIDE

Super SolarFlex Settings

Jaboni Solar Charger, VictronConnect App, and Magnum ME-RC Remote

JABONI SOLAR CHARGER

User Manual



Display Menu and User Controls

Press the “Menu” Button to show the first menu option. Press it again to go to the next option. To change the value of the option, press the “UP” or “DOWN” buttons. After changing the value of the option shown, press “ON/OFF” to save the new value. The display will show the main screen (voltage, current and device status). If no button is pressed within five seconds after changing a value, the display will return to the main screen without changing the setting.

Available Value Options

- Charger RVC instance: Selects the Charge Controller to be managed (range 1 to 3). Default: 1
- Maximum output current: Configures the output current (range 1 to 30 amps). Default: 30.
- Battery type: Sets the battery type (options are wet lead-acid, AGM, gel, and lithium. Default: wet lead-acid.
- LCD Contrast: Changes the contrast of the display (range 1 to 9). Default: 5.
- Communication port: Changes the configuration of the port to allow a technician to connect the Unit to a PC (options are CAN and PC). Default: CAN.

Lithium Battery Settings

This unit is programmed from the factory to the Lithium Battery setting. Should you need to replace the remote, you’ll need to set it up for Lithium Batteries.

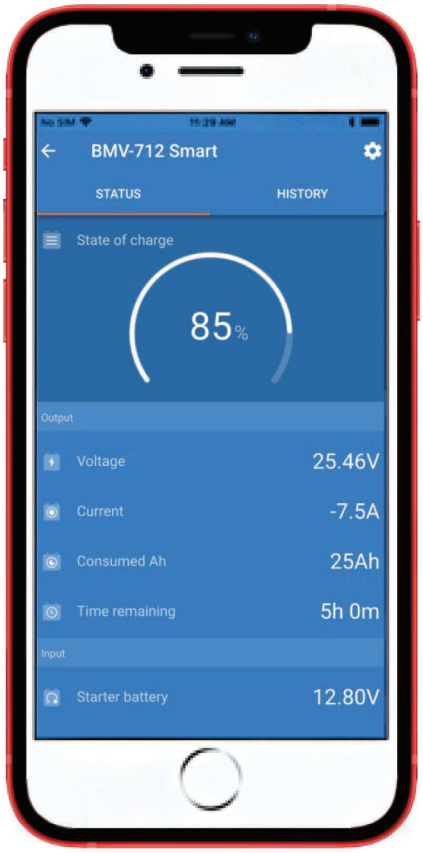
1) Press the Menu button until you see “Battery Type”
  a. Press the down arrow until you see “Lithium”
  b. Press the Power Button to save.

2) Press the Power Button again to turn on charger.

3) Press the Menu button one time.
  a. Press the up arrow until you see “Charger 2”
  b. Repeat Step 1.

You’ll need to repeat for each of the 4 chargers.

BLUETOOTH APP



BMV-712 Smart

Download the manual here:

https://www.victronenergy.com/live/victronconnect:start

Pairing Procedure

Default pin code is 000000.

After connecting, the pin code can be changed by going into "Settings" (upper right), select "Menu" ( ), "Product Info", and here you can change the product name and pin code.

If the dongle pin code is lost, reset it to 000000 by pressing and holding the clear PIN button until the solid blue colored Bluetooth light flashes off and on momentarily.

You will want to "Sync" your battery monitor once a month after your inverter/charger has gone "Silent" and while your voltage is still at 14.4v+. This will ensure your SOC is accurate.

App Store

Google Play

User Manual

SOLAR CONTROLLER STATUS

Light Indicator Key ◎ Blinking ○ On ● Off

FAULT SITUATION

LEDs	BULK	ABSORPTION	FLOAT
Charger temperature too high	○	○	◎
Charger over-current	◎	○	◎
Charger or panel over-voltage	○	◎	◎
Internal error *(*3)*	◎	◎	○

REGULAR OPERATION

LEDs	BULK	ABSORPTION	FLOAT
Not charging *(*1)*	◎	○	○
Bulk *(*2)*	●	○	○
Absorption *(*2)*	○	●	○
Automatic equalization *(*2)*	○	●	●
Float *(*2)*	○	○	●

*NOTE (*1): The bulk LED will blink briefly every 3 seconds when the system is powered but this is insufficient power to start charging.*
*NOTE (*2): The LED(s) might blink every 4 seconds indicating that the charger is receiving data from another device, this can be:*

- *A GX Device (e.g. Color Control with a Multi in ESS mode)*
- *A VE.Smart network link via Bluetooth (with other MPPT chargers and/or a BMV or Smart Battery Sense)*

*NOTE (*3): e.g. Calibration and/or settings data lost, current sensor issue.*

ME-RC STANDARD REMOTE CONTROL

User Manual

1) Press the SETUP menu button.

Bottom line shows a menu heading.

2) Turn the SELECT knob to the desired menu item.

When the button line shows the desired menu heading:

3) Press the SELECT knob.

Bottom line shows current setting.

**If this setting is correct, rotate the SELECT knob to continue to the next menu item.

4) Press the SELECT knob to change the desired setting.

Rotate the SELECT knob to the desired setting.

When the bottom line shows the desired setting:

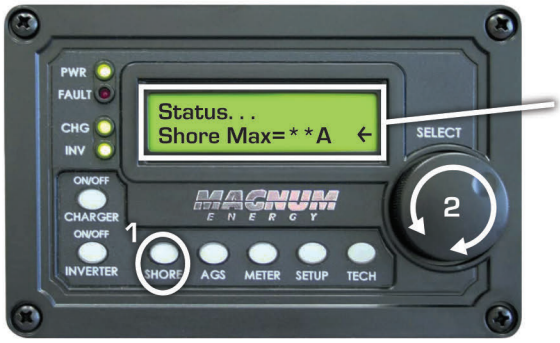
5) Press the SELECT knob to save this setting.

SHORE Menu

This menu button enables you to quickly change your *Shore Max* setting to coordinate with the circuit breaker rating from the incoming AC source.

SHORE: Shore Max- This ensures the inverter AC Loads receive the maximum current available from the utility/generator. Whenever the utility/generator is connected to the inverter, (via AC HOT 1), the current used to power the AC loads and to charge the batteries begins to approach the *Shore Max* setting, the current that was used for charging the batteries is automatically reduced. This ensures the AC loads have the needed current (not available on MM/MM-E/MM-AE/MMS/MMS-E models).

Default setting: *Shore Max = 30A*
Range: *5-60A*



SHORE Max Selections

1) Press the SHORE menu button.

Bottom line shows current saved setting.

If this setting is correct, press another menu button to access another menu item.

If a different setting is required:

2) Turn the SELECT knob to the desired selection.
Range: 5-60Amps (increments of 5Amps)

3) Press the SELECT knob to save the setting.

Set the *Shore Max* setting to match the current rating of the utility power or the generator's circuit breaker. This setting controls the input current differently depending on the inverter/charger model and the AC wiring configuration. Set per your inverter model below.

⚠ CAUTION

Unless you have an MS hybrid series inverter/ charger---which provides the Load Support feature--- the Shore Max setting only limits current to the battery, it does not limit the current to the inverter loads. If the current from the loads on the output of the inverter are greater than the circuit breaker rating on the incoming AC source, you will experience nuisance tripping on this breaker.

ⓘ INFO

If you are supplying tow AC sources (utility and generator) to the inverter's single input through an AC transfer switch, adjust the Shore Max setting to the smaller AC circuit breaker size of the two AC sources.

Shore Power/Generator Settings

1) When you are plugged into full "50 Amp" service, you want to set the "SHORE" of each inverter to at least 30 Amps. You'll want to adjust the "SHORE" setting when you are plugged into a smaller power source.

2) If you are plugged into a 15, 20, or an external generator, you need to adjust the "SHORE" to match.

- **a.** If you plug into 30A power, set both inverters to 15A.
- **b.** If you plug into 30A power, set inverter 1 to 20A and inverter 2 to 10A.
- **c.** The same concept is applied when plugging into a small generator. 8.3 AC Amps for every 1000 Watts. 2000W is 16.6A, 3000W is 25A, and 4000W is 33A.

Charge Rate

Sets the maximum charge rate allowed to charge the batteries during Bulk, Absorption, Float, and Equalize charging. The *Max Charge = 0%* setting helps minimize charging while continuing to allow pass-thru power. The rest of the selections are provided to limit the charge rate to the battery bank, which helps prevent battery overheating caused by charging at too high a charge rate.

The *Max Charge* selections are provided as a percentage of the inverter/charger's maximum charging capability. Refer to the label on the side of the inverter (or owner's manual) to determine the inverter's maximum charge rate. Once you find this maximum charge rate, determine the percentage needed to limit the charge rate to your battery bank.

Default Setting: Max Charge = 80%
Range: 0-100%

Note:

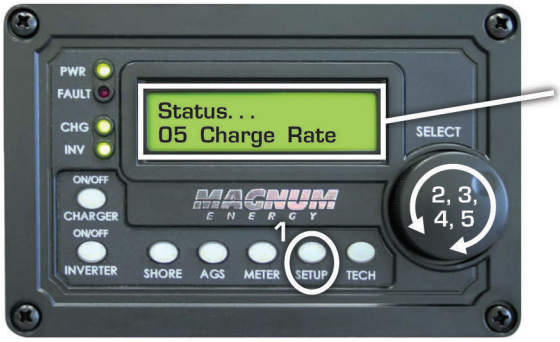
If "CC/CV Controlled" displays on this menu's screen, you will not be able to adjust the settings as "CC/CV" has been selected as the battery type from the 04 Battery Type menu.

Example: The maximum charge rate of your inverter/charger is 120 Amps and you need to limit the charge rate to 72 Amps. Choose the *Max Charge = 60%* setting (72 Amps = 60% of 120 Amps).

INFO

If *Max Charge = 0%*, the topology of the inverter- when connected to an AC source- will override the 0% setting and start charging if the battery voltage is <11 VDC (12V models), <22 VDC (24V models), or <44 VDC (48V models)

ME-RC STANDARD REMOTE CONTROL CONTINUED



Charge Rate Selections

1) Press the SETUP menu button.

2) Turn the SELECT knob to 05 Charge Rate

3) Press the SELECT knob to select the setting.

4) Turn the SELECT knob to desired selection:
Range: 0-100% (increments of 10%)

5) Press the SELECT knob to select the setting.

The maximum charge rate is generally set to a C/5 rate (C= the total Ahr capacity of the battery bank--- using the 20-hour AH rate). The C/5 rate is usually used when the objective is to charge the batteries as quickly as possible (i.e., 400 AH divided by 5 = 80 Ahr maximum charge rate). A lower rate such as C/20 is used when the batteries need to be charged as slow as possible.

Managing Your Charge

If you are in a situation where you need to run a larger load and you don't need to charge the batteries, you can turn the chargers down to keep the inverters from using up all your power to charge. There are a couple ways to accomplish this.

1) Turn 1 or both chargers off by pressing the "CHG" button. The display should read "Charger Stand By". Don't forget to turn back on later.

2) Turn the "Charge Rate" down below 50% and the units will allow some charge through when the loads are light and shut them off to "Load Assist" when they are heavy.

HOW BATTERIES ARE RATED

Amp Hours (Ah)–
Unit of electric charge; 1A of current flowing for 1 hour.

Reserve Capacity (RC)–
of minutes a battery can maintain a useful voltage under a 25A discharge.

Conversion from Reserve Capacity to Ah:
Ah = ((Reserve Capacity x 60) x 25) / 3600 **or** Ah = Reserve Capacity / 2.4