Programming Victron MultiPlus 12V 3000Watt Inverter/Charger

(Must program with a 12V battery)





In this guide we wanted to show demonstrate how to program a Victron MultiPlus 12V 3000W Inverter/Charger. Victron products are great paired with our Battle Born Batteries because not only is the quality impressive, most of their components are configurable to work with LiFePO4 batteries.

What you will need to complete this programming -

- At least one 12-volt Battle Born Lithium Deep Cycle Battery or any 12-volt battery
- Computer
- *VEConfigure 3 Software* (<u>https://www.victronenergy.com/support-and-downloads/software</u>) watch video for installation instructions
- Victron MultiPlus 12V 3000Watt Inverter/Charger
- Ethernet cable
- MK3USB Victron Interface

Preparing The MultiPlus for Programming:

When preparing the Victron for programming, remember to connect the Ethernet cable to the input on the far left. We are also going to be putting on the positive and negative connections onto the Victron MultiPlus from the battery (make sure the MultiPlus is switched OFF).

The Positive and Negative Connections will usually have the (+) symbol and (-) symbol under the connections.



Steps for Programming:

1. Once you connect your MultiPlus to the computer. Open up the VEConfigure 3 software. This warning sign may appear, if so click "OK". Make sure that the power switch on your MultiPlus is turned ON.





2. Next, on the top right tabs click on Port Selection > Com Port > Auto Detect

3. If everything is connected correctly, your Multiplus Inverter/Charger should be found.



4. Now, click on the "Inverter tab". Here, you will change the default voltage settings to the following:



5. That was all for the "Inverter" tab. Now, we move onto the "Charger" tab. For this tab we are going to look for "Battery Type" and click on that.

General Grid Ir	nverter	Charger	Virtual switch	Assistants			
✓ Enable charge	3	ď.	Battery	ype:			
Weak AC input No corresponding default							
Stop after excess							
🗖 Lithium batteries 💦 🔍							
🔽 Storage mode 📉 🕔							
Use equalization (tubular plate traction battery curve)							
Charge curve Adaptive + BatterySafe -							
Absorption voltage	28.80	V Re	peated absorption	on time	1.00	Hr	
Float voltage	27.60	V Re	peated absorption	on interval	7.00	Days	
Charge current	52	A Ma	iximum absorptio	n time	8	Hr	

6. Make Sure that you choose "Lithium Iron Phosphate, LiFePO4, batteries" if you are using a Lithium battery for your system. Once Selected, click "OK".

Please select batter	ry type
	E Battery type
🗸 ок	S No corresponding default
	Lithium Iron Phosphate, LiFePo4, batteries (Also requires an assistant!)
🗙 Cancel	🗢 Gel MK Battery
	🗢 Gel Exide A400
Create new type	🗢 Gel/AGM, Victron Energy, Gel Exide A200
	C Flooded deep discharge flat plate lead antimony
Remove type	🗢 AGM Victron Deep Discharge (fastest recharge), Tubular plate batteries (semi float use), AGM spiral cell
	C Flooded tubular plate
	C Rolls battery

It will show you an information box like the one provided on the screen shot below and it will show you all the settings that have been modified. Most of these settings are still default so don't worry, it just has to show this information box when changing to LiFePO4. When you are done confirming, click "OK".



7. Back on the Charger tab make sure that "enable charger" and "lithium batteries" has a check mark. Then the "Charge curve" should say <u>Fixed</u>.



- 8. Still on the charger tab, adjust these settings:
 - Absorption: 14.4V
 - **Float:** 13.6V
 - Charge Current: 120 Amps
 - Absorption Time: 30min per battery. (In this case there are two batteries, which would mean we put 1 hour for both. Keep repeated absorption time and interval in default).

Float voltage V Repeated absorption interval 7.00	
	Days
Charge current 120 A Absorption time 1	Hr

9. When you are done with all of these, click on "Send Settings" near the bottom left.

Ala MultiPlus	General Grid Inverter Charge	Virtual switch Assistants
UMains 10V IMains 0.0A UOut 41V IOut 0.0A Udc 9.9V Udc ripple 0.0V	Enable charger Weak AC input Stop after excessive bulk Lithium batteries	Battery type: No corresponding default
Idc npple 0.0 V Idc 0.0 Hz Freq. Dut 0.0 Hz Freq. In Hz	Disrege mode Use equalization (tubular plate tr Charge curve Fixed Absorption voltage 14.40 V F Eloat voltage 13.60 V F	action battery curve) Repeated absorption time 1.00 Hr Anneated absorption interval 7.00 Date
show VE.Bus monitor	Charge current 80 A A	bsorption time 1 Hr
Get settings		<u> </u>
Victron Energy		

Once you click on that it'll give you the options to send settings. Select modified settings then click "OK".

Enable charger Weak AC input	Battery type: o corresponding default
ins for sending	
Send what?	
🗶 Cancel	Interval 7.00 D
	U

10. It'll ask you to confirm by clicking "YES" to reset the MultiPlus. You should hear a faint clicking noise coming from the inverter charger once restarted (the red light will also flash once).



When you open up the software after resetting the MultiPlus, you will notice that all the lettering is in black for the settings, opposed to their gold color in number 9.



Your modified settings should now be programmed and saved!

Please remember to turn OFF the Victron MultiPlus and if you have your Victron connected onto your system already, then there is no need to do anything else but disconnect the USB connections.

.....

If you are programming your Victron but still need to install, turn off the inverter/charger, then disconnect the positive, negative, and USB connections.

.

This product and many others can be pre-programmed for you as long as you let us know when placing an order. For any more questions you may have on this Victron Multiplus or any other inverter charger, please send us an email at <u>info@battlebornbatteries.com</u> or give us a call at 855-292-2831. We enjoy helping our customers get their system working properly in order to get out there and stay out there!

