



Victron inverter connection guidance

1. Inverter Display

Exterior	Nameplate																								
	 <table border="1"><thead><tr><th>DC IN</th><th>AC OUT</th><th>AC IN</th><th>DC OUT</th></tr></thead><tbody><tr><td>48V Battery</td><td>230V</td><td>187-260V</td><td>48V 70A</td></tr><tr><td>38-66V</td><td>19A ~ PF +/- 0.6</td><td>50A ~</td><td>-20°C to 65°C</td></tr><tr><td>110A</td><td>50/60Hz</td><td>50/60Hz</td><td>isolated</td></tr><tr><td></td><td>5000VA/4000W</td><td>4500VA/4400W</td><td>OVC III</td></tr><tr><td></td><td>Icw: 6kA</td><td>cos φ > 0.8</td><td>class 1</td></tr></tbody></table> <p>Designed in The Netherlands, Europe. Made in India</p>	DC IN	AC OUT	AC IN	DC OUT	48V Battery	230V	187-260V	48V 70A	38-66V	19A ~ PF +/- 0.6	50A ~	-20°C to 65°C	110A	50/60Hz	50/60Hz	isolated		5000VA/4000W	4500VA/4400W	OVC III		Icw: 6kA	cos φ > 0.8	class 1
DC IN	AC OUT	AC IN	DC OUT																						
48V Battery	230V	187-260V	48V 70A																						
38-66V	19A ~ PF +/- 0.6	50A ~	-20°C to 65°C																						
110A	50/60Hz	50/60Hz	isolated																						
	5000VA/4000W	4500VA/4400W	OVC III																						
	Icw: 6kA	cos φ > 0.8	class 1																						

2. Sequence of Operations

(1) Inverter connected to battery power line

Make sure the battery is turned off, and use a 13MM sleeve to connect the positive and negative power cables to the terminals on the battery side of the inverter, and fix them firmly.



(2) Inverter Connected to Grid

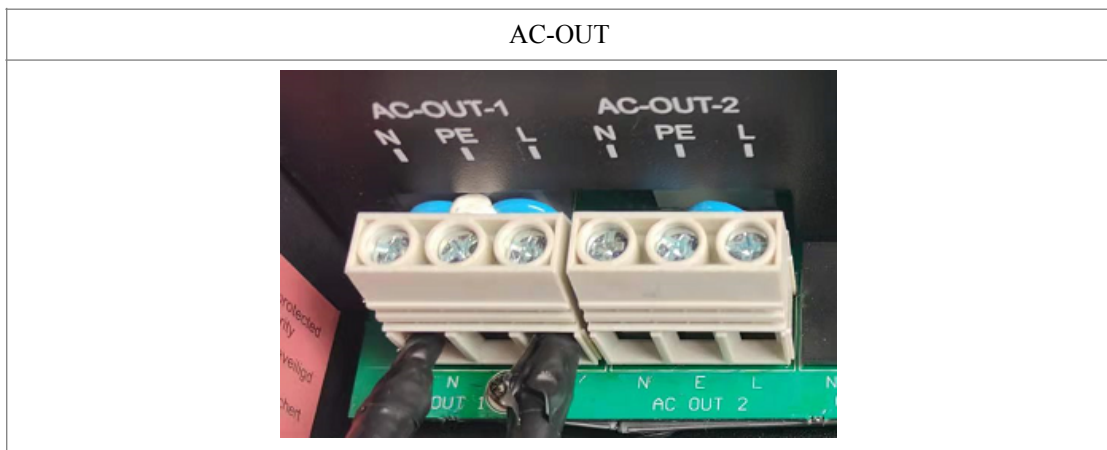
Make sure that the grid circuit breaker is disconnected, connect the N line and the L line to the AC input side of the inverter respectively, and use a Phillips screwdriver to fix them firmly.

AC-IN



(3) Inverter Connected to Load

Make sure that the inverter is in the off state, distinguish the positive and negative poles of the AC load, connect them to L and N of the AC output end of the inverter respectively, and use a Phillips screwdriver to fix them firmly.

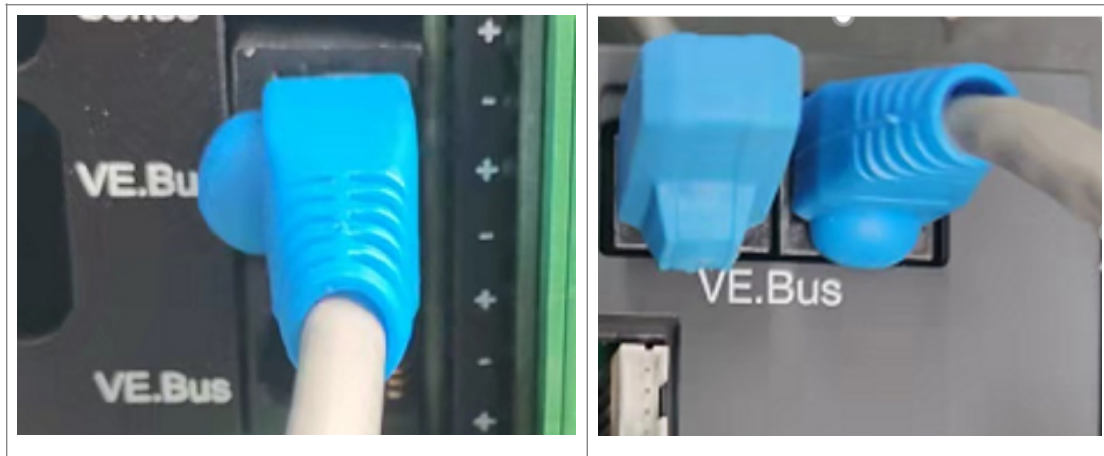


(4) Connect the Communication Line

1、 Inverter communicates with CCGX

Insert one end of the communication cable into the VE.Bus port of the inverter, the other end into the VE.Bus port of the CCGX controller, and the VE.Bus end of the CCGX end into a matching resistor at the same time, otherwise there will be problems in communication.


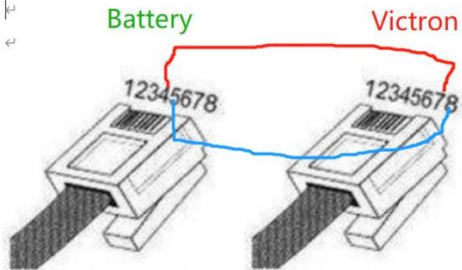
Inverter side VE. Bus	CCGX side VE.Bus
-----------------------	------------------



2、Lithium battery and CCGX

Prepare a communication line, cut it from the middle part and divide it into two communication lines 1 and 2; peel off the cut part of line 1, connect PIN4 to PIN7 of line 2; connect PIN5 to PIN7 of line 2. Then plug the No. 1 communication wire into the battery port, and the No. 2 communication wire into the VE.Can port of the CCGX controller, and insert the matching resistor at the same time, otherwise there will be problems with communication. Such as communication SOC is not displayed.

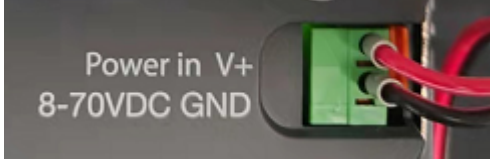

Note: Please use Category 5 network cable for communication cable, with RJ45 at both ends.

CCGX side VE.Can	Communication line connection
	
VE.Bus & VE.Can line order	Battery
PIN7: CAN_H PIN8: CAN_L	PIN4: CAN_H PIN5: CAN_L

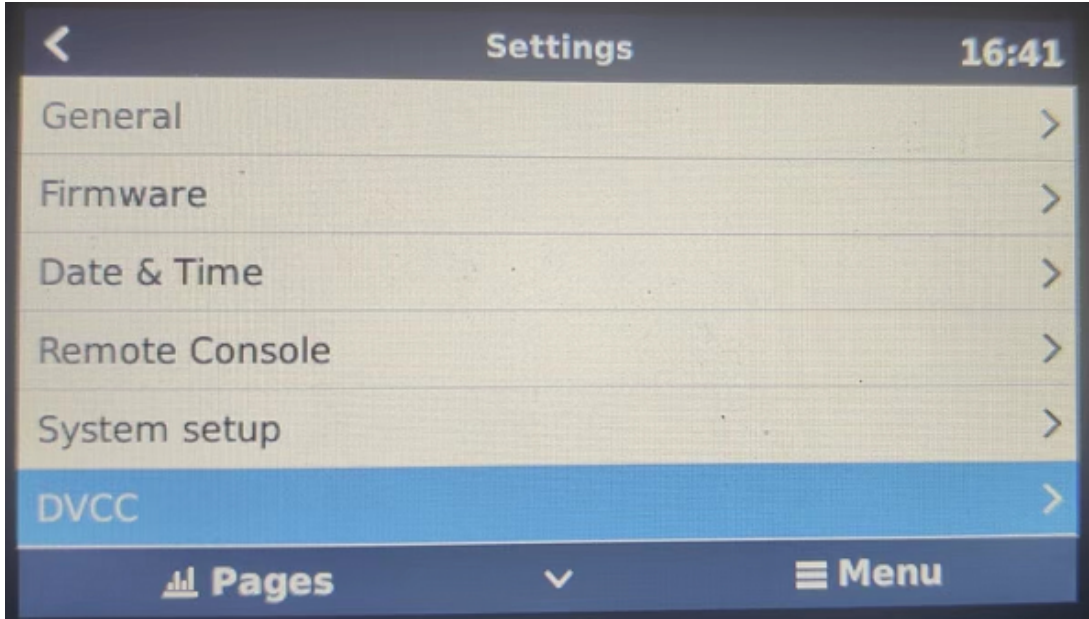
(5) Connect the power supply of the CCGX controller

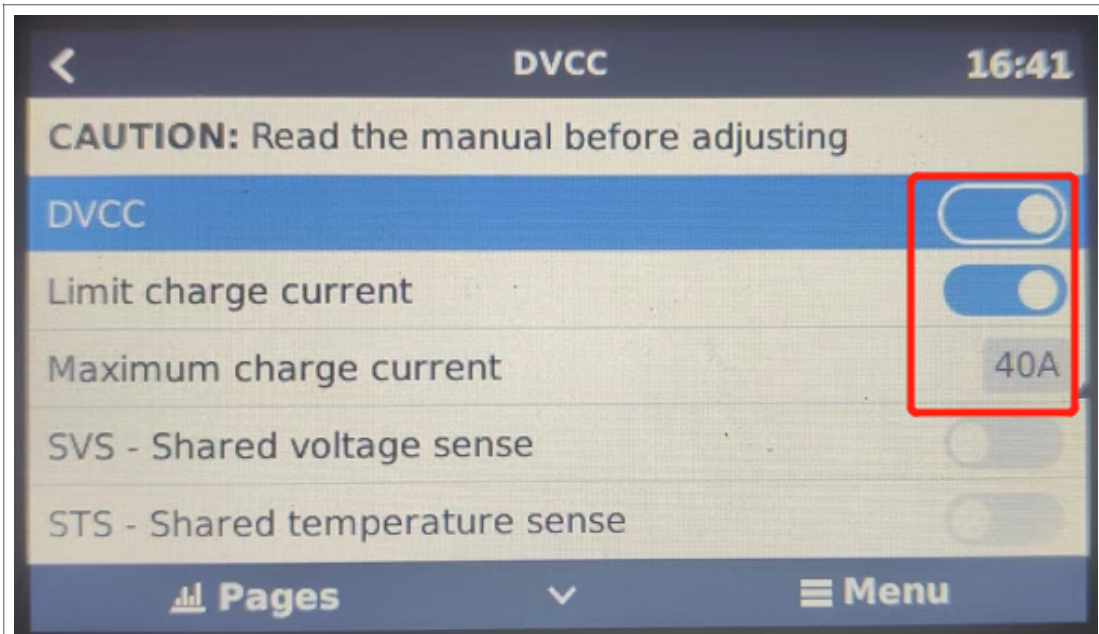
Find the power cable that comes with the inverter, insert one end of the pin terminal into the Power in port of the CCGX controller, note that the red is the

positive and the black is the negative; the other end of the round terminal is connected to the positive and negative ports of the battery, please pay attention to the CCGX power supply Voltage range limitation (8-70Vdc). (It is recommended to use the last battery to power the GX controller)

CCGX side wiring	Battery side wiring
	
<p>Note: Please connect the positive pole of the GX controller power cord to the positive part of the battery, and connect the negative part of the battery to the negative pole of the GX controller power cord.</p>	

(6) CCGX Set up

DVCC settings

<p>Turn on DVCC mode, turn on lithium battery charging current setting</p>



Set VC.CAN.Port baud rate

