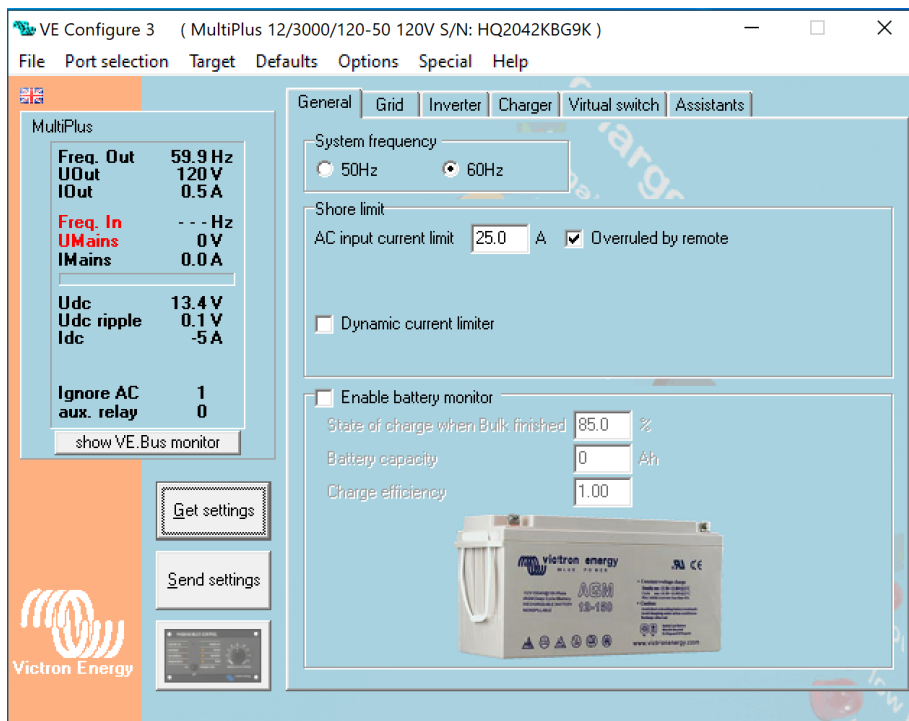


How-To Manually Override “Ignore AC” and GX Generator Start/Stop Conditions

Yes, it is possible and not too difficult to do, however it's not very intuitive. I'll give you the settings I use. If you read up on using assistants with the MultiPlus plus my notes below, you should be good to go.

I use a MultiPlus 3KVA, Cerbo GX, a BMV-712 and some other miscellaneous Victron gear. I use the BMV to give me battery SOC, temperature, voltage, etc. and I have the battery monitor turned off on my Multi. I also wired up a SPST toggle switch and relay 1 on the Cerbo (in parallel) to the Aux 1 input on my Multi. This way I can manually turn off Ignore AC with the toggle switch and/or use the generator start/stop function in the Cerbo. You'll need to make sure the Virtual Switch is turned off on your Multi, also, and use the Cerbo instead for configuring Ignore AC based on SOC, load, etc. I added the manual toggle switch because it's much easier to ask my wife or son to flip the switch than how to go into the Cerbo and manually activate the generator start/stop function.

Settings on Multi:



The screenshot shows the 'VE Configure 3' software interface for a MultiPlus 12/3000/120-50 120V S/N: HQ2042KBG9K. The interface is divided into several sections:

- MultiPlus Status:** Displays real-time data: Freq. Out (59.9 Hz), UOut (120 V), IOut (0.5 A), Freq. In (- - Hz), UMains (0 V), IMains (0.0 A), Udc (13.4 V), Udc ripple (0.1 V), Idc (-5 A), Ignore AC (1), and aux. relay (0). A 'show VE.Bus monitor' button is present.
- Settings Panel:** Includes 'Get settings' and 'Send settings' buttons, and a 'Victron Energy' logo.
- Configuration Tabs:** 'General', 'Grid', 'Inverter', 'Charger', 'Virtual switch', and 'Assistants'. The 'Charger' tab is active.
- Charger Settings:**
 - System frequency: 50Hz (radio button), 60Hz (radio button).
 - Shore limit: AC input current limit (25.0 A), Overruled by remote.
 - Dynamic current limiter.
 - Enable battery monitor.
 - State of charge when Bulk finished: 85.0 %.
 - Battery capacity: 0 Ah.
 - Charge efficiency: 1.00.
- Image:** A photograph of a Victron Energy MultiPlus 12-120 battery unit.

VE Configure 3 (MultiPlus 12/3000/120-50 120V S/N: HQ2042KBG9K)

File Port selection Target Defaults Options Special Help

MultiPlus

Freq. Out 59.9 Hz
UOut 120 V
IOut 0.5 A
Freq. In --- Hz
UMains 0 V
IMains 0.0 A
Udc 13.4 V
Udc ripple 0.1 V
Idc -5 A
Ignore AC aux. relay 1 0
 show VE.Bus monitor

Get settings Send settings

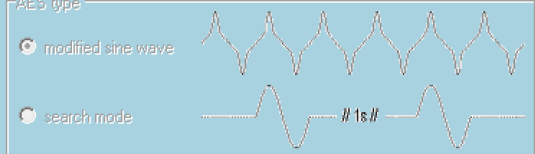
General Grid Inverter **Charger** Virtual switch Assistants

Inverter output voltage 120 V
 Ground relay
 DC input low shut-down 12.00 V
 DC input low restart 12.50 V
 DC input low pre-alarm 12.50 V
 Do not restart after short-circuit (VDE 2510-2 safety)

PowerAssist
 Assist current boost factor 2.0
 shut-down on SOC
 SOC low shut-down 0.0 %
 SOC low restart 0.0 %

enable AES
 Start AES when load lower than 60 W
 Stop AES when load 14 W higher than start level.

AES type
 modified sine wave
 search mode # 1s #



VE Configure 3 (MultiPlus 12/3000/120-50 120V S/N: HQ2042KBG9K)

File Port selection Target Defaults Options Special Help

MultiPlus

Freq. Out 59.9 Hz
UOut 120 V
IOut 0.5 A
Freq. In --- Hz
UMains 0 V
IMains 0.0 A
Udc 13.4 V
Udc ripple 0.1 V
Idc -5 A
Ignore AC aux. relay 1 0
 show VE.Bus monitor

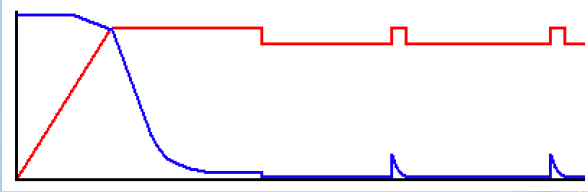
Get settings Send settings

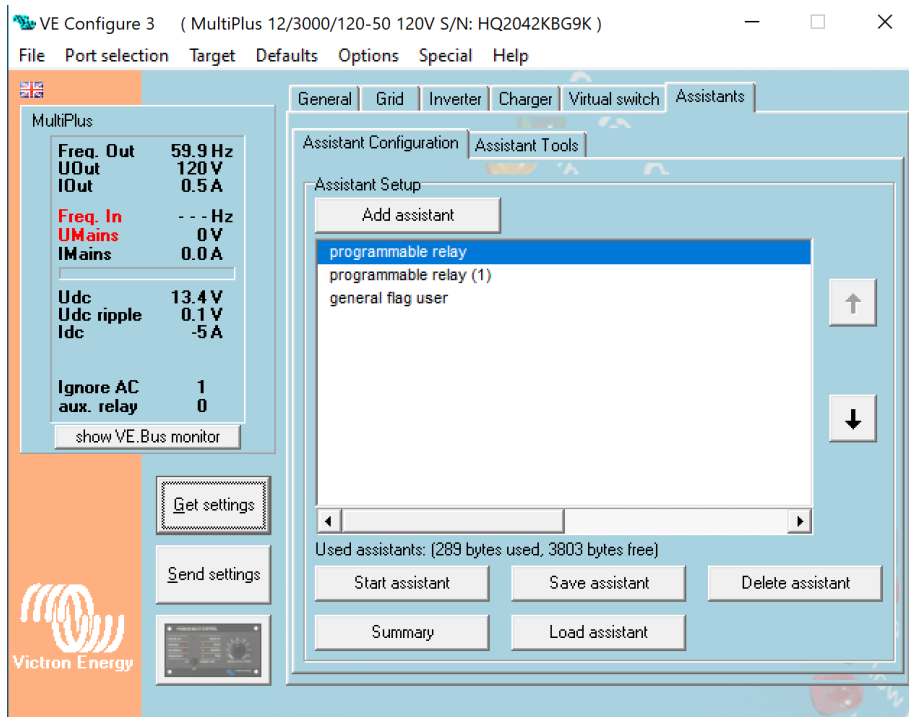
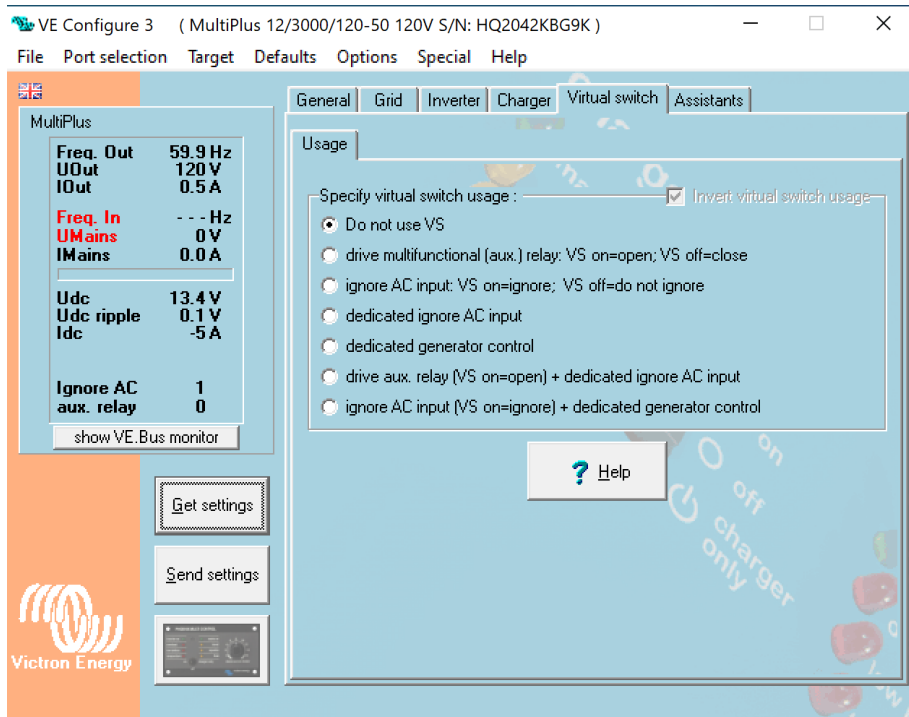
General Grid Inverter **Charger** Virtual switch Assistants

Enable charger
 Weak AC input
 Stop after excessive bulk
 Lithium batteries
 Storage mode
 Use equalization (tubular plate traction battery curve)


Charge curve Fixed
 Absorption voltage 14.10 V Repeated absorption time 1.00 Hr
 Float voltage 13.95 V Repeated absorption interval 7.00 Days
 Charge current 120 A Absorption time 1 Hr

Battery type:
 No corresponding default





Information ×

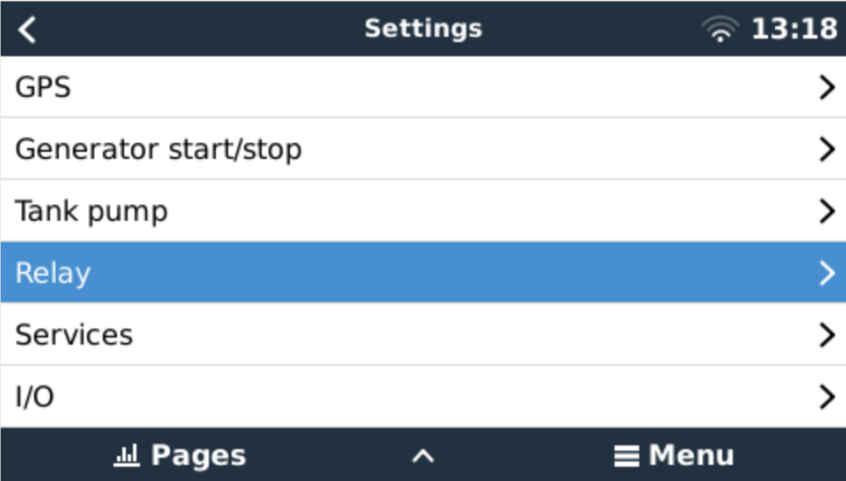
 programmable relay (size:176)
*) Use General Flag
*) Set relay on
*) when Auxiliary input 1 is open for 2 seconds.

programmable relay (1) (size:37)
*) Use General Flag
*) Set relay off
*) when Auxiliary input 1 is closed for 2 seconds.

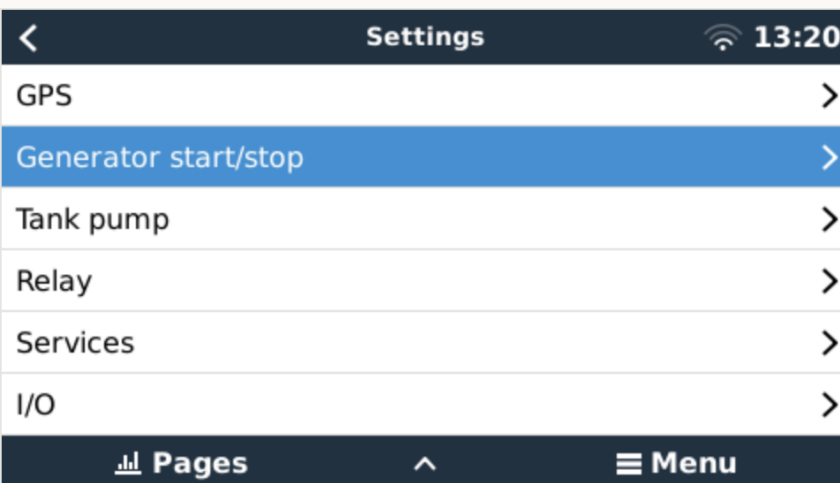
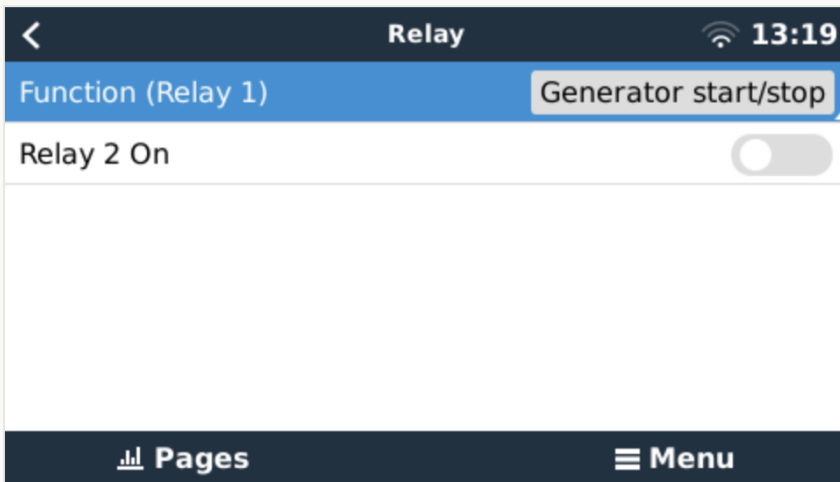
general flag user (size:5)
*) Use general flag to ignore AC input 1

Total size of all assistants including the required
(hidden) system assistants is: 289

Settings on GX Device:



The screenshot shows the 'Settings' application on a GX Device. The title bar at the top is dark blue with a back arrow on the left, the word 'Settings' in the center, and a Wi-Fi signal icon and the time '13:18' on the right. Below the title bar is a list of settings categories, each with a right-pointing chevron: 'GPS', 'Generator start/stop', 'Tank pump', 'Relay' (which is highlighted with a blue background), 'Services', and 'I/O'. At the bottom of the screen is a dark blue navigation bar with three icons: a bar chart icon labeled 'Pages', an upward-pointing arrow, and a hamburger menu icon labeled 'Menu'.



Generator start/stop 13:20

State	Stopped
Error	No error
Total run time	7h 56m
Auto start functionality	<input checked="" type="checkbox"/>
Manual start	>
Daily run time	>

Pages Menu

Generator start/stop settings 13:20

Conditions	>
Minimum run time	1m
Detect generator at AC input	<input type="checkbox"/>
Quiet hours	<input type="checkbox"/>
Reset daily run time counters	Press to reset
Generator total run time (hours)	8

Pages Menu

Conditions 13:21

On loss of communication	Keep generator running
Do not run generator when AC1 is in use	<input type="checkbox"/>
Battery SOC	Enabled >
Battery current	Disabled >
Battery voltage	Disabled >
AC load	Enabled >

Pages Menu

Battery SOC 13:21

Use Battery SOC value to start/stop

Start when Battery SOC is lower than 40%

Start value during quiet hours 40%

Stop when Battery SOC is higher than 80%

Stop value during quiet hours 80%

Pages Menu

AC output 13:21

Use AC Load to start/stop

Measurement Inverter total AC out

Start when power is higher than 1300W

Start value during quiet hours 1300W

Start after the condition is reached for 20s

Stop when power is lower than 800W

Pages Menu

AC output 13:22

Start when power is higher than 1300W

Start value during quiet hours 1300W

Start after the condition is reached for 20s

Stop when power is lower than 800W

Stop value during quiet hours 800W

Stop after the condition is reached for 20s

Pages Menu