

# Virtual switch - Generator start/stop

This document explains one of the ways to automatically start and stop a generator. See [here](#) for the other options.

More generator information about using a generator in combination with Victron is available [here](#).

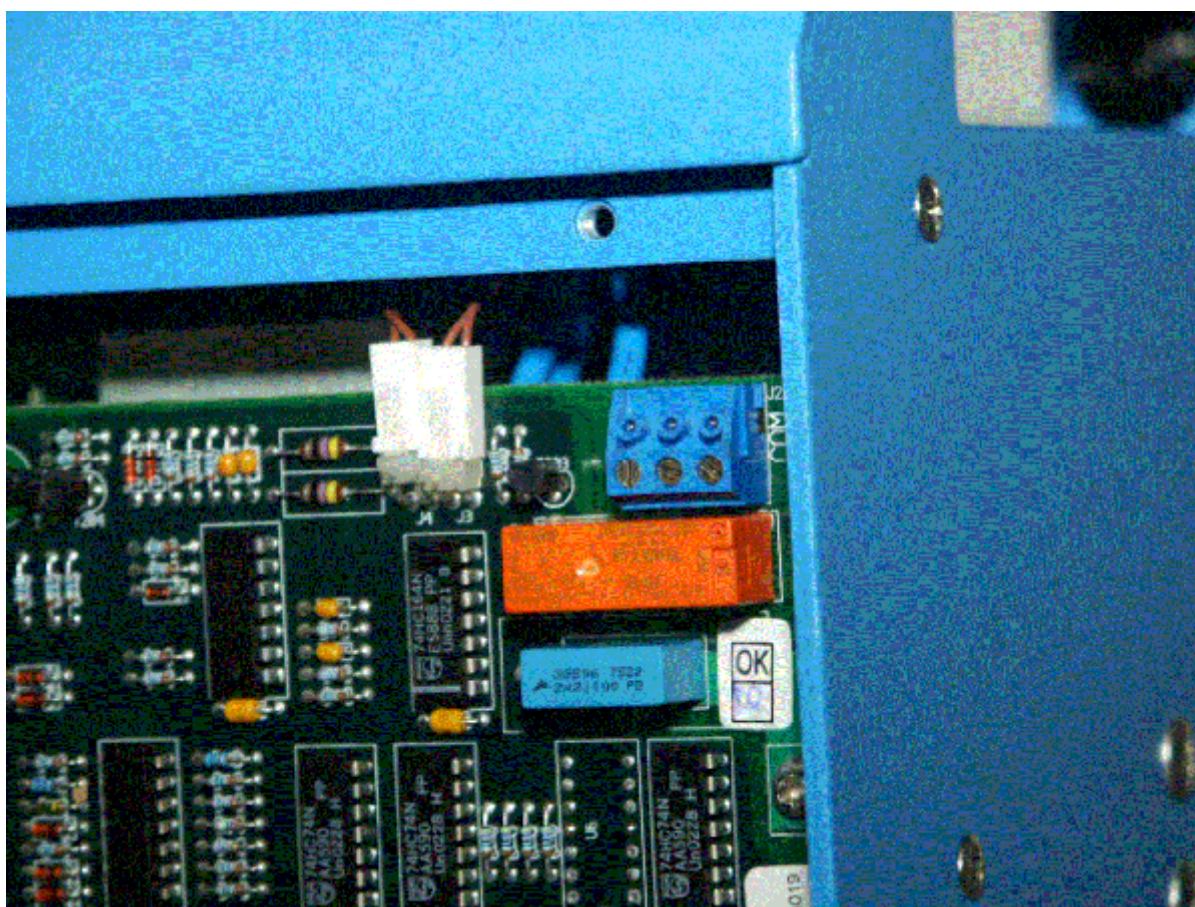
## 1. Wiring

The relay and connector block that needs to be wired to the generator control input is named the Alarm relay; in the various manuals.

### 1.1 MultiPlus and Quattro models of 3000VA and above

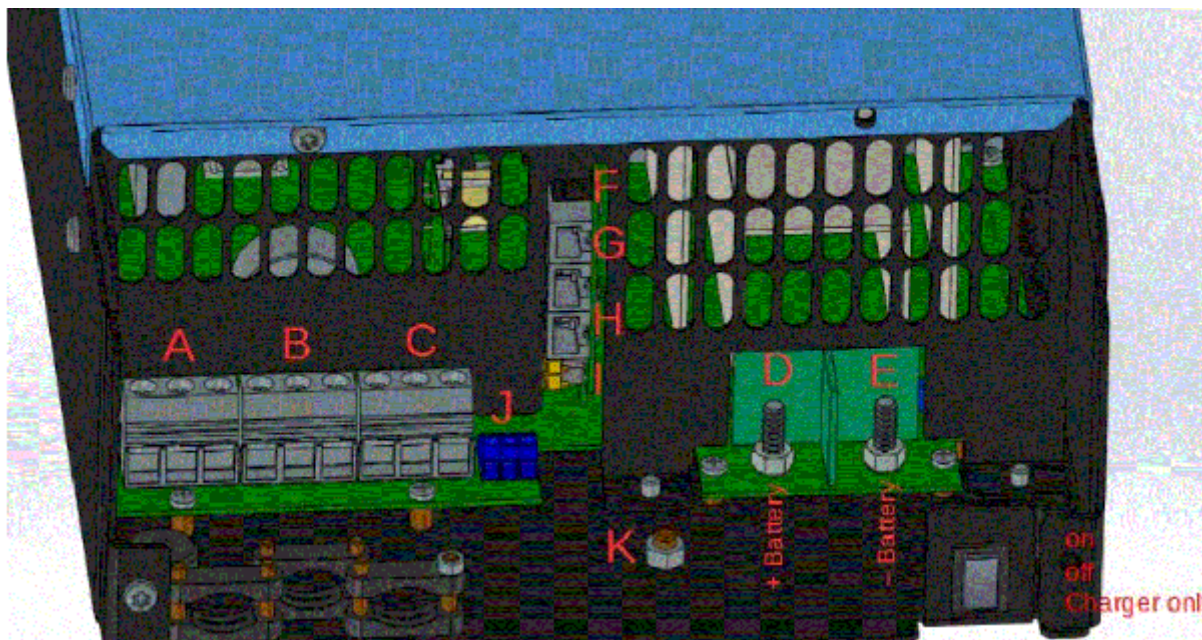
To do the wiring easily; be aware that its detachable: you can pull the block off; do the wiring; and then push it back on.

Note that there are three contacts; left to right: Normally Closed (NC) , Normally Open (NO), Common (COM).



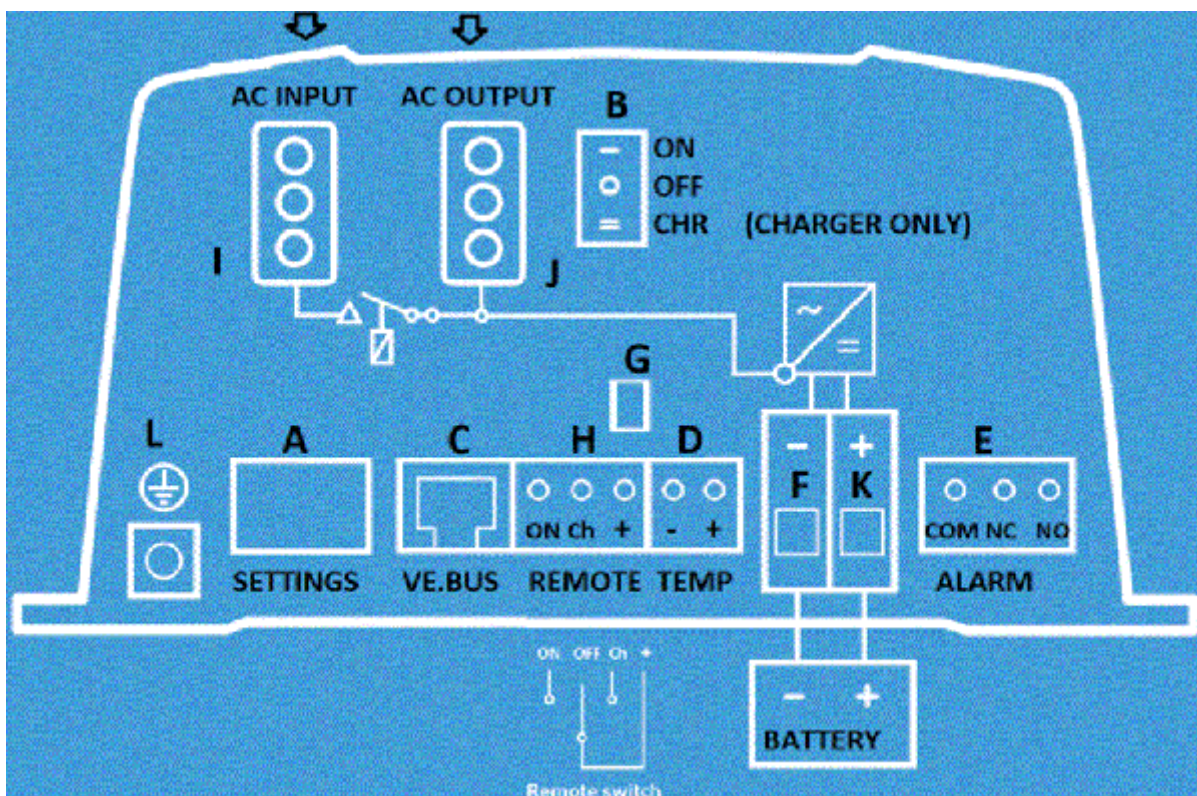
## 1.2 MultiPlus-II models

The connector is J in the picture. Left to right: NO, NC, COM.

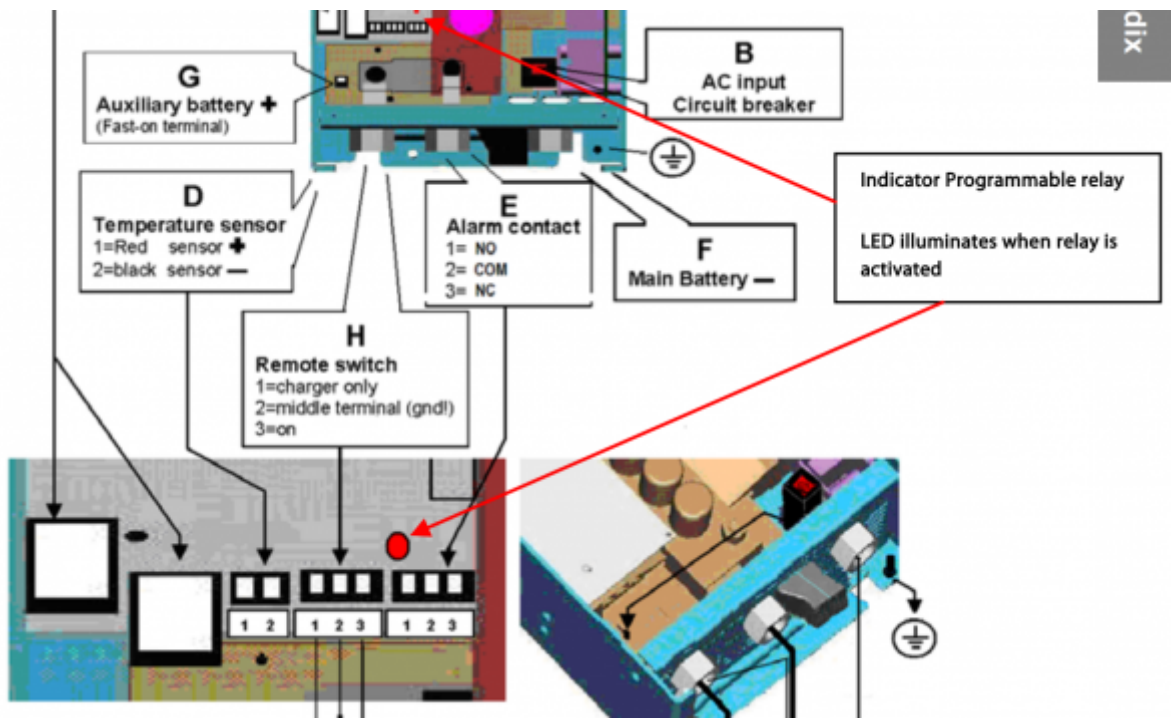


## 1.3 MultiPlus 500VA to 1600VA models

And, on our Multi 500, 800, 1200 and coming 1600, is contact E; here:



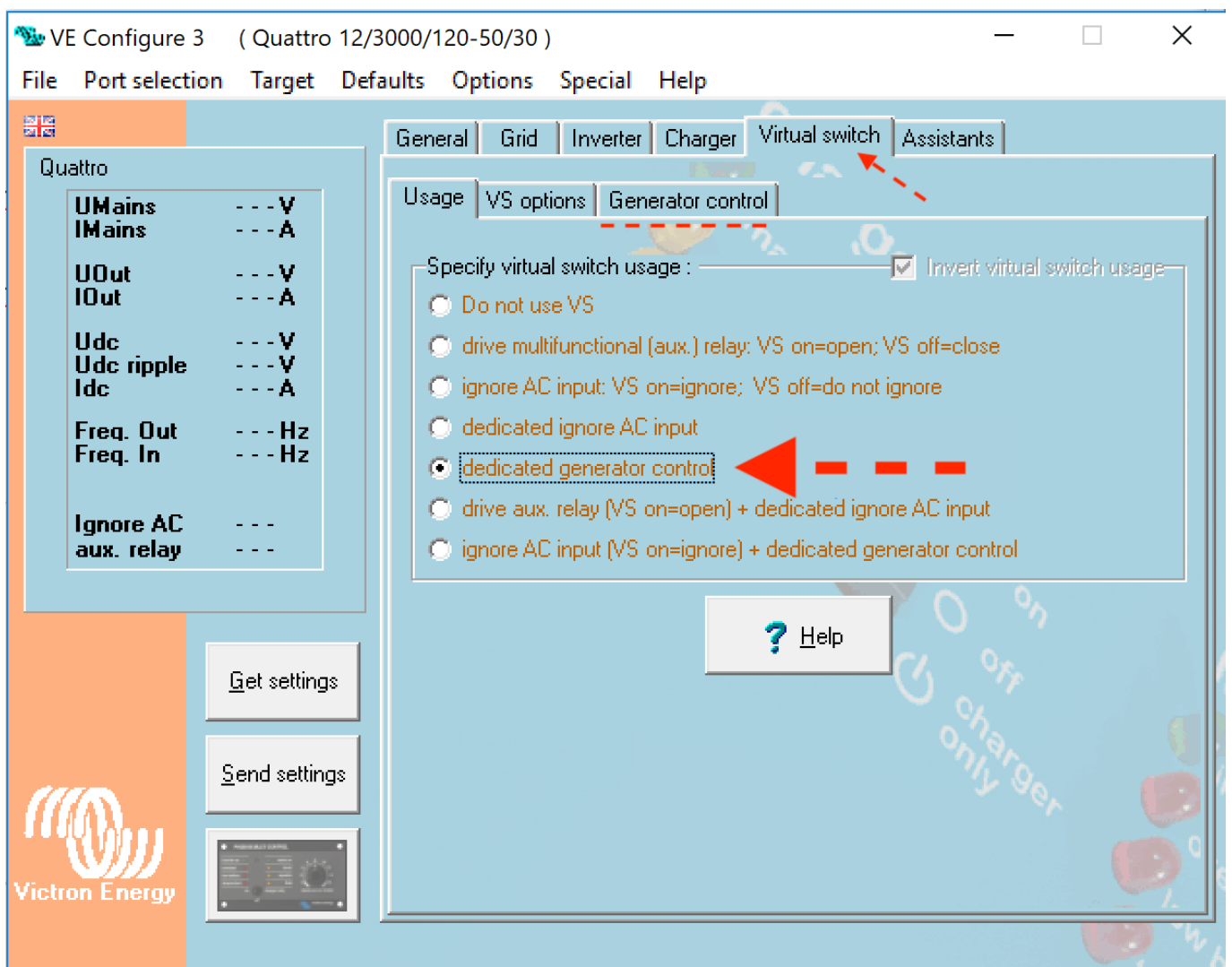
## 1.4 MultiPlus Compact models



## 2. Configuration

### 2.1 enable the feature

Open VEConfigure, navigate to the Virtual Switch, and there select 'dedicated generator control'.



## 2.2 configure the feature

Note that below are just example values; configure them to the suit the type of batteries and rest of system.

VE Configure 3 (Quattro 12/3000/120-50/30)

File Port selection Target Defaults Options Special Help

General Grid Inverter Charger Virtual switch Assistants

Usage VS options Generator control

Quattro

- UMains --- V
- IMains --- A
- UOut --- V
- IOut --- A
- Udc --- V
- Udc ripple --- V
- Idc --- A
- Freq. Out --- Hz
- Freq. In --- Hz
- Ignore AC aux. relay ---

Get settings

Send settings

Load conditions

Start generator when load higher than:  
 2548 W for 30 seconds

Once started due to load condition, stop generator when load lower than:  
 637 W for 2 minutes

Battery conditions

Start generator  
 when Udc lower than: 11.75 V for 20 seconds  
 or when state of charge lower than: 50.0 %

Once started due to a battery condition, stop generator when:  
 Udc higher than 14.00 V for 30 minutes

- stop generator when AC2 available
- invert driving of auxiliary relay (i.e. generator starts when relay NOT driven)

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