

# 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](#).

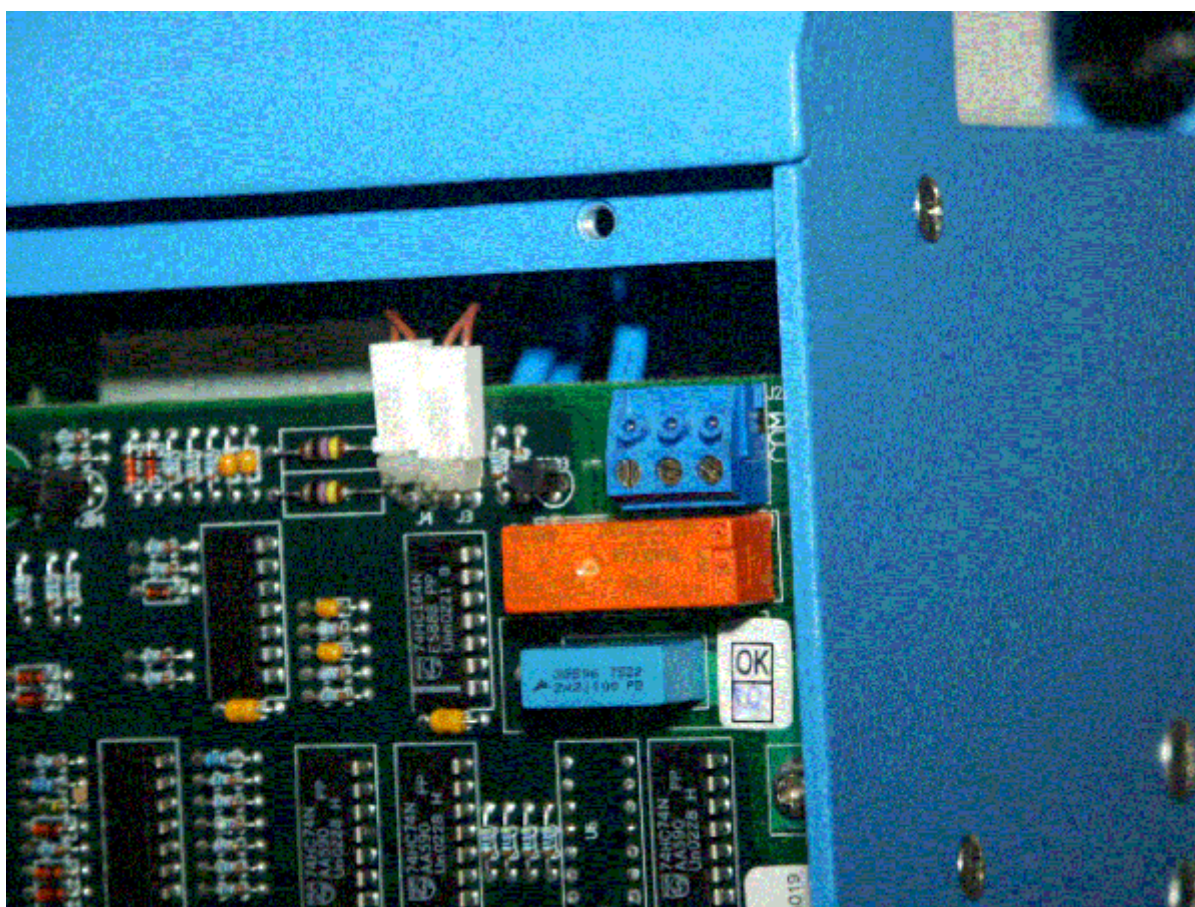
## 1. Wiring

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.

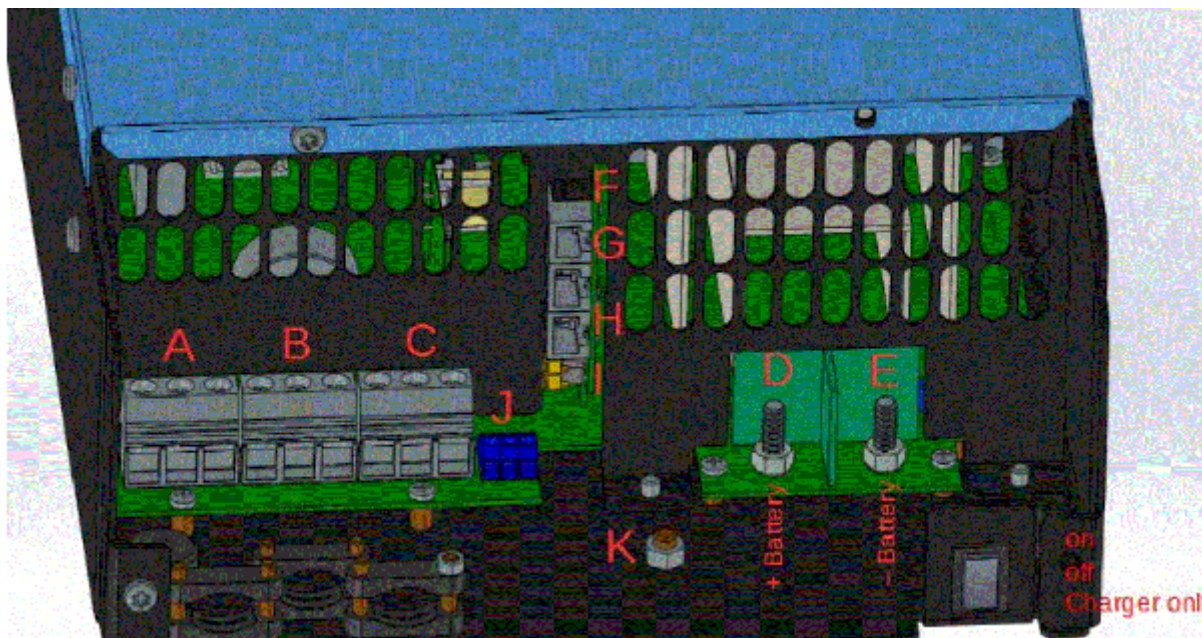
Note that there are three contacts; left to right: Normally Closed (NC) , Normally Open (NO), Common (COM).





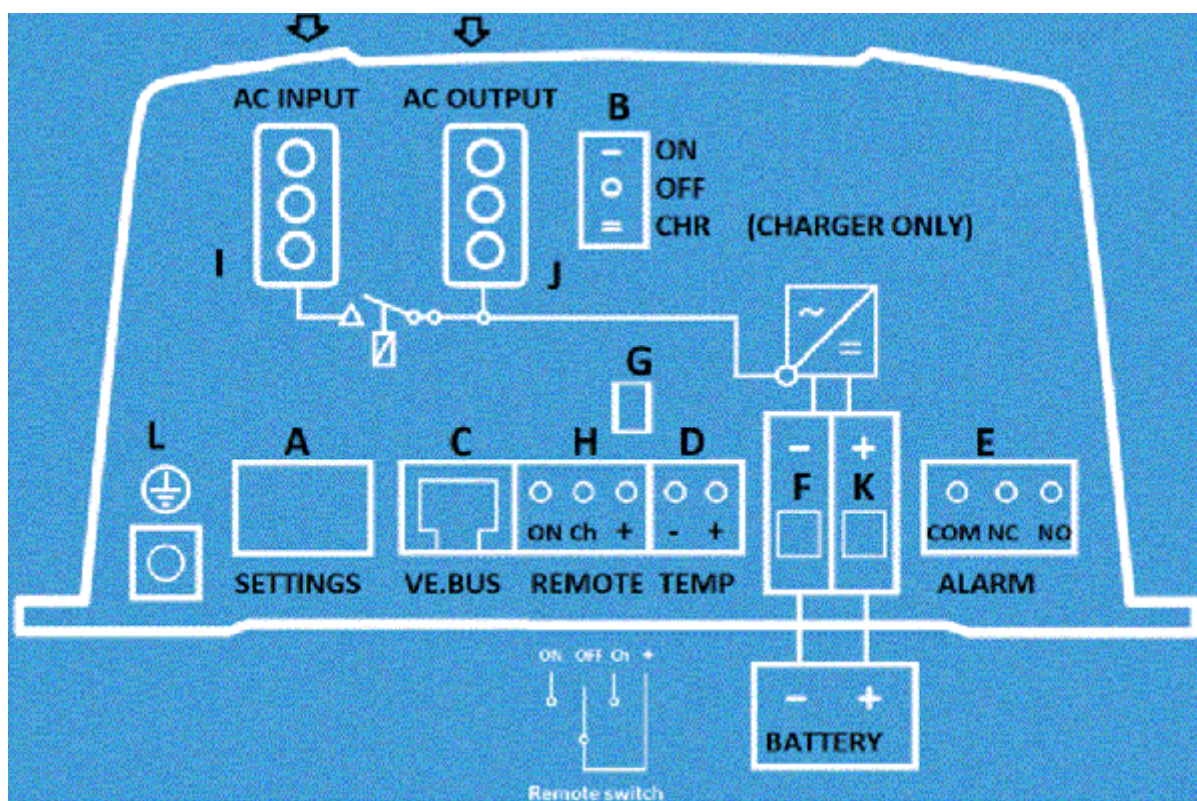
## 1.2 MultiPlus-II models

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

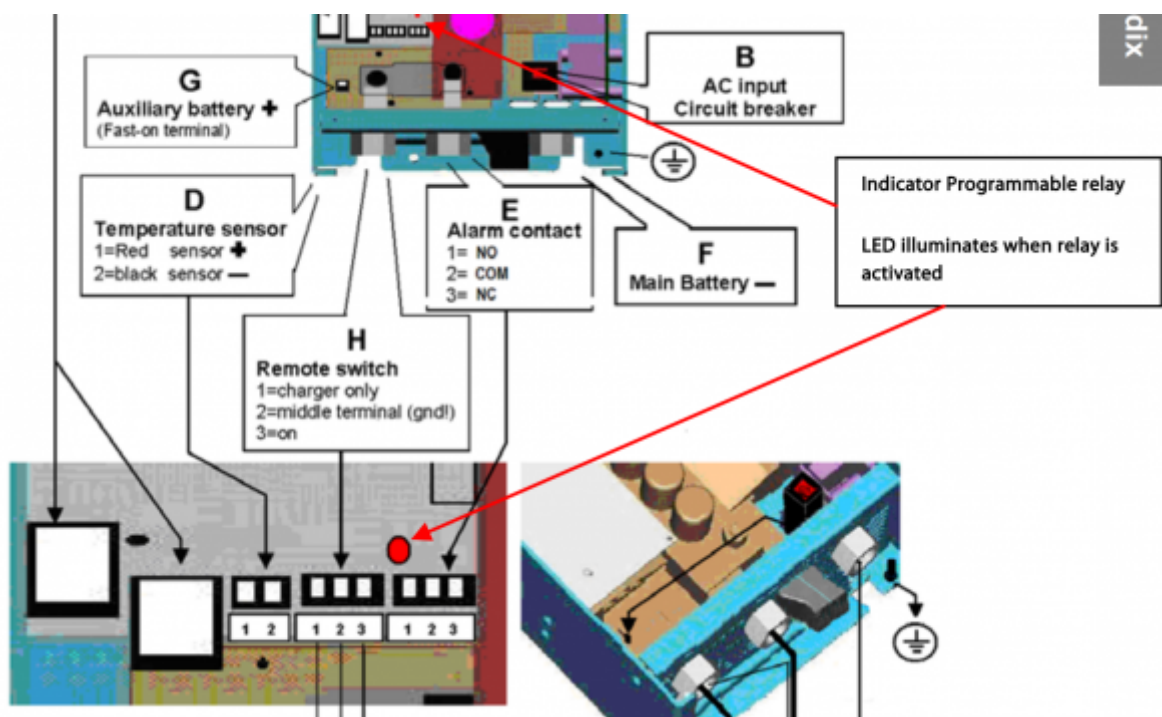


## 1.3 MultiPlus 500VA to 1600VA models

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



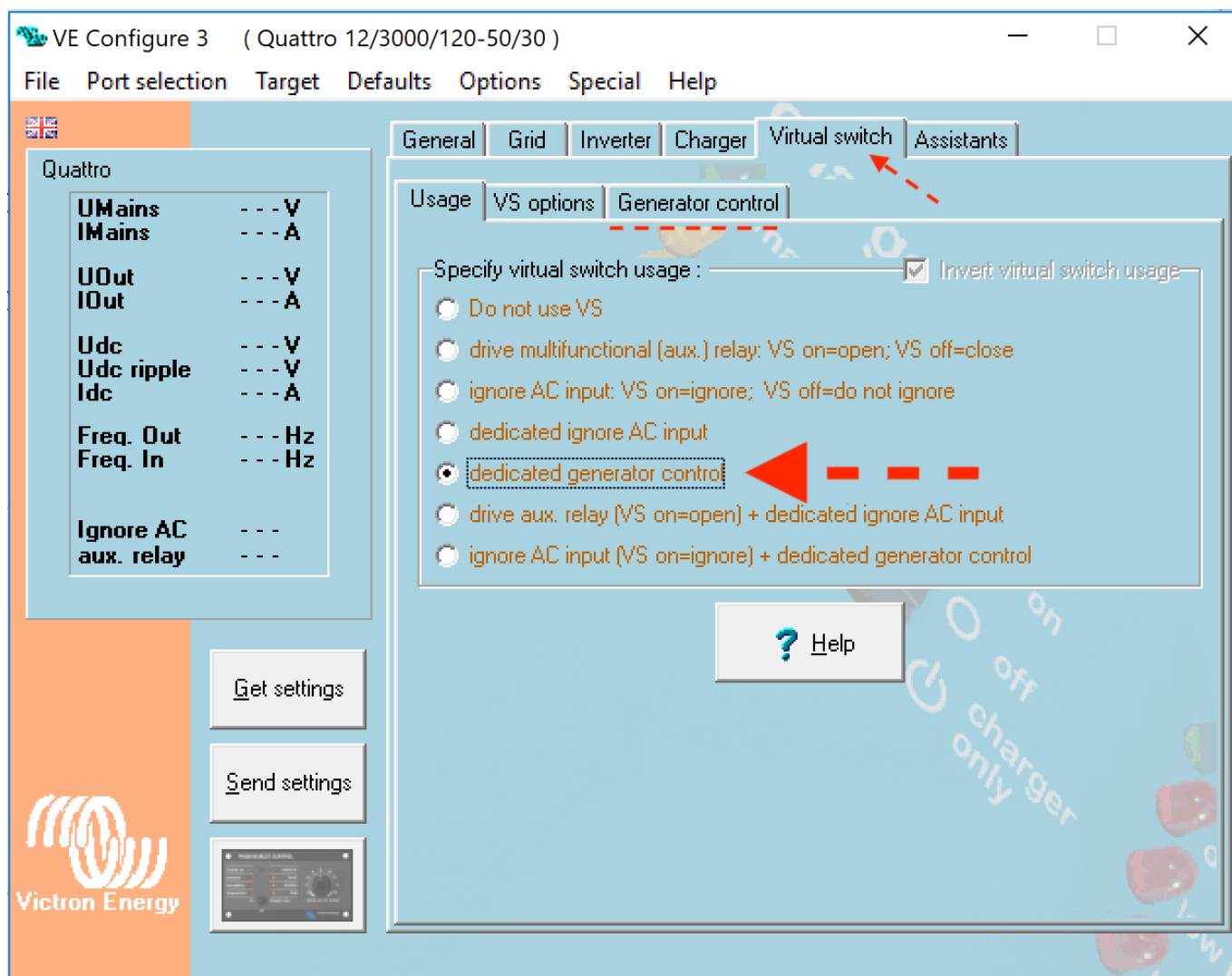
## 1.4 MultiPlus Compact models



## 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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