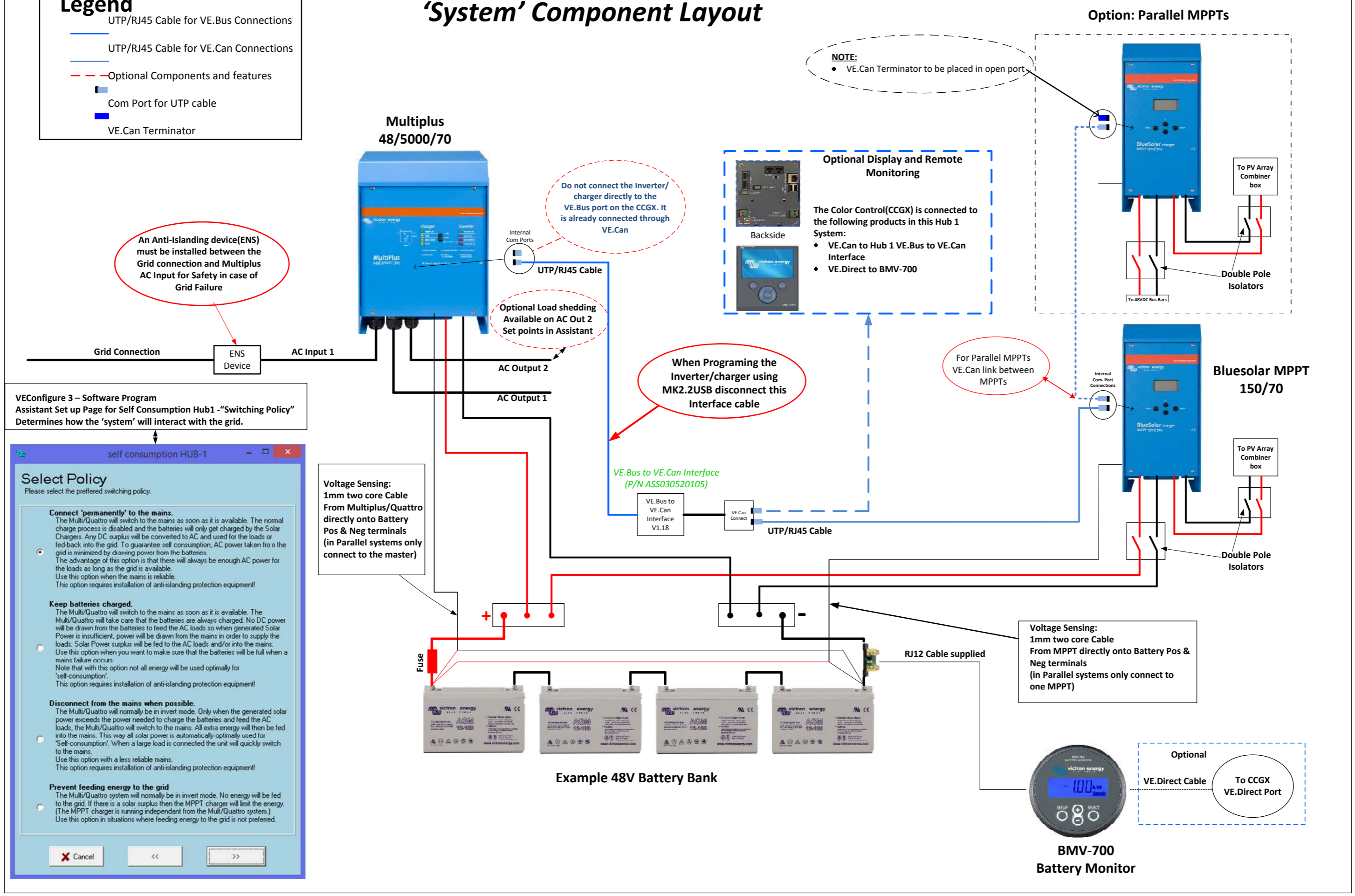


Self Consumption Hub 1 'System' Component Layout

Legend

- UTP/RJ45 Cable for VE.Bus Connections
- UTP/RJ45 Cable for VE.Can Connections
- Optional Components and features
- Com Port for UTP cable
- VE.Can Terminator



VEConfigure 3 – Software Program Assistant Set up Page for Self Consumption Hub1 – “Switching Policy” Determines how the ‘system’ will interact with the grid.

Select Policy
Please select the preferred switching policy.

- Connect 'permanently' to the mains.**
The Multi/Quattro will switch to the mains as soon as it is available. The normal charge process is disabled and the batteries will only get charged by the Solar Chargers. Any DC surplus will be converted to AC and used for the loads or fed back into the grid. To guarantee self consumption, AC power taken from the grid is minimized by drawing power from the batteries.
The advantage of this option is that there will always be enough AC power for the loads as long as the grid is available.
Use this option when the mains is reliable.
This option requires installation of anti-islanding protection equipment!
- Keep batteries charged.**
The Multi/Quattro will switch to the mains as soon as it is available. The Multi/Quattro will take care that the batteries are always charged. No DC power will be drawn from the batteries to feed the AC loads so when generated Solar Power is insufficient, power will be drawn from the mains in order to supply the loads. Solar Power surplus will be fed to the AC loads and/or into the mains.
Use this option when you want to make sure that the batteries will be full when a mains failure occurs.
Note that with this option not all energy will be used optimally for 'self-consumption'.
This option requires installation of anti-islanding protection equipment!
- Disconnect from the mains when possible.**
The Multi/Quattro will normally be in invert mode. Only when the generated solar power exceeds the power needed to charge the batteries and feed the AC loads, the Multi/Quattro will switch to the mains. All extra energy will then be fed into the mains. This way all solar power is automatically optimally used for 'self-consumption'. When a large load is connected the unit will quickly switch to the mains.
Use this option with a less reliable mains.
This option requires installation of anti-islanding protection equipment!
- Prevent feeding energy to the grid**
The Multi/Quattro system will normally be in invert mode. No energy will be fed to the grid. If there is a solar surplus then the MPPT charger will limit the energy. (The MPPT charger is running independent from the Multi/Quattro system.)
Use this option in situations where feeding energy to the grid is not preferred.

Cancel << >>

NOTE:

- VE.Can Terminator to be placed in open port

Optional Display and Remote Monitoring

The Color Control (CCGX) is connected to the following products in this Hub 1 System:

- VE.Can to Hub 1 VE.Bus to VE.Can Interface
- VE.Direct to BMV-700

Option: Parallel MPPTs

For Parallel MPPTs VE.Can link between MPPTs

When programming the inverter/charger using MK2.USB disconnect this interface cable

Voltage Sensing: 1mm two core Cable From Multiplus/Quattro directly onto Battery Pos & Neg terminals (in Parallel systems only connect to the master)

Voltage Sensing: 1mm two core Cable From MPPT directly onto Battery Pos & Neg terminals (in Parallel systems only connect to one MPPT)

Optional

- VE.Direct Cable
- To CCGX VE.Direct Port

Example 48V Battery Bank

BMV-700 Battery Monitor