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victron energy Skylla-i Control GX WiFi Module Long Range Instruction Manual

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General

The Skylla-i panel is a remote panel designed to work with all Skylla-i chargers. The Skylla-charger uses the VE.CAN bus. Connecting the Skylla-i panel to your Skylla-i charger is a simple procedure. Connect the two devices with a regular UTP (Unshielded Twisted Pair) cable with two RJ45 connectors. Make sure that the two RJ45 bus terminators are in place at both ends. The Skylla-i panel comes complete with both RJ45 bus terminators. Both the Skylla-i charger and the panel have two RJ45 sockets which are internally connected, you can connect the cable to either socket.

Operation

When the bus is powered-up the Skylla-i panel briefly lights up all items, next the software version number is displayed after which it will show the status of the connected Skylla-icharger. When the Skylla-i charger is powered off (standby) the panel will also shutdown (all lights off) to reduce power consumption. When the Skylla-i charger is operating, the status LEDs show the actual state of charge. The table below shows the possible LED indications during normal charge operation.

State	LEDs:	Bulk	Absorption	Float	Alarm
Bulk		●	○	○	○
Safe-mode		●	●	○	○
Absorption		○	●	○	○
Automatic equalization		○	●	●	○
Float / storage		○	○	●	○
Manual equalization		◎	◎	○	○
Power supply mode		●	●	●	○
Alarm*		○	○	○	●

● means permanent on   ◎ means blinking   ○ means off

When the 'alarm' LED is on, the display shows an error code. See appendix C for an overview of the error codes. During normal charger operation it is possible to cycle through the following parameters, by turning the rotary knob:

- charge current
- battery voltage
- input current
- input current limit

The active parameter is shown by a blue LED in the status area. The display shows parameters in SI units (Ampere or Volts) with one decimal digit. The decimal digit disappears when the charger operates at or above 100A. The display will show the set value (blinking) when adjusting voltage or current with the potentiometers in the Skylla-i.

Turning the charger on and off
The Skylla-i charger is switched on and off by briefly pressing the on|off button. Note that the main power switch on the charger is dominant, once it is switched off on the charger, the panel cannot switch the charger on anymore.

Setting the charger input current limit
The input current limit is modified by briefly pressing and releasing the rotary knob. The selection will automatically jump to input current limit if it was not yet active. Next the display shows the actual input current limit and blinks. Turn the rotary now to modify the input current limit. To confirm the new value either wait several seconds or briefly press and release the rotary knob.
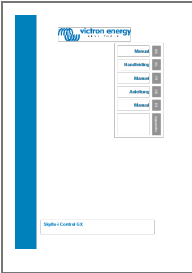
LED brightness
For your comfort, the brightness of the LEDs is controlled automatically using a light sensor. When the ambient light level becomes lower the LEDs will be less bright which is more pleasant for the eye and reduces power consumption.

Multiple Skylla-i's and Control panels in one VE.Can network
Several Skylla-i control panels can be connected to one charger or to a set of synchronized and parallel connected chargers. It is not necessary to configure anything in an out-of-the-box installation. Connecting all Skylla-i's, the control panel and placing the terminators is sufficient. Only in installations where multiple Skylla-i's are on the same VE.Can network while charging different battery banks, do settings need to be altered to prevent them from synchronizing. All Skylla-i chargers and Skylla-i control panels recognize each other based on the device instance. The default device instance is zero for both control panels and Skylla-i's. To change the device instance, use a NMEA2000 network tool from for example Actisense or Maretron. To manually reset the device instance in the Skylla-i control panel to zero, press and hold the pushbutton on the back for four seconds. After the four seconds the panel will restart (all LEDs will temporary light up), and the device instance is set to zero. See the latest version of the Skylla-i manual for the list of error and warning codes. Note that mentioned functionality is available from firmware v2.00 in both the Skylla-i and the Skylla-i control panel.

Documents / Resources

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Skylla-i Control GX, WiFi Module Long Range, Skylla-i Control GX WiFi Module Long Range, Module Long Range, Long Range, Range

References

- **Victron Energy**