

Quick start Guide Wallbox



DC Power System in Wallbox

Rectifier Flatpack2 HE

Smartpack2-based

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1. Introduction

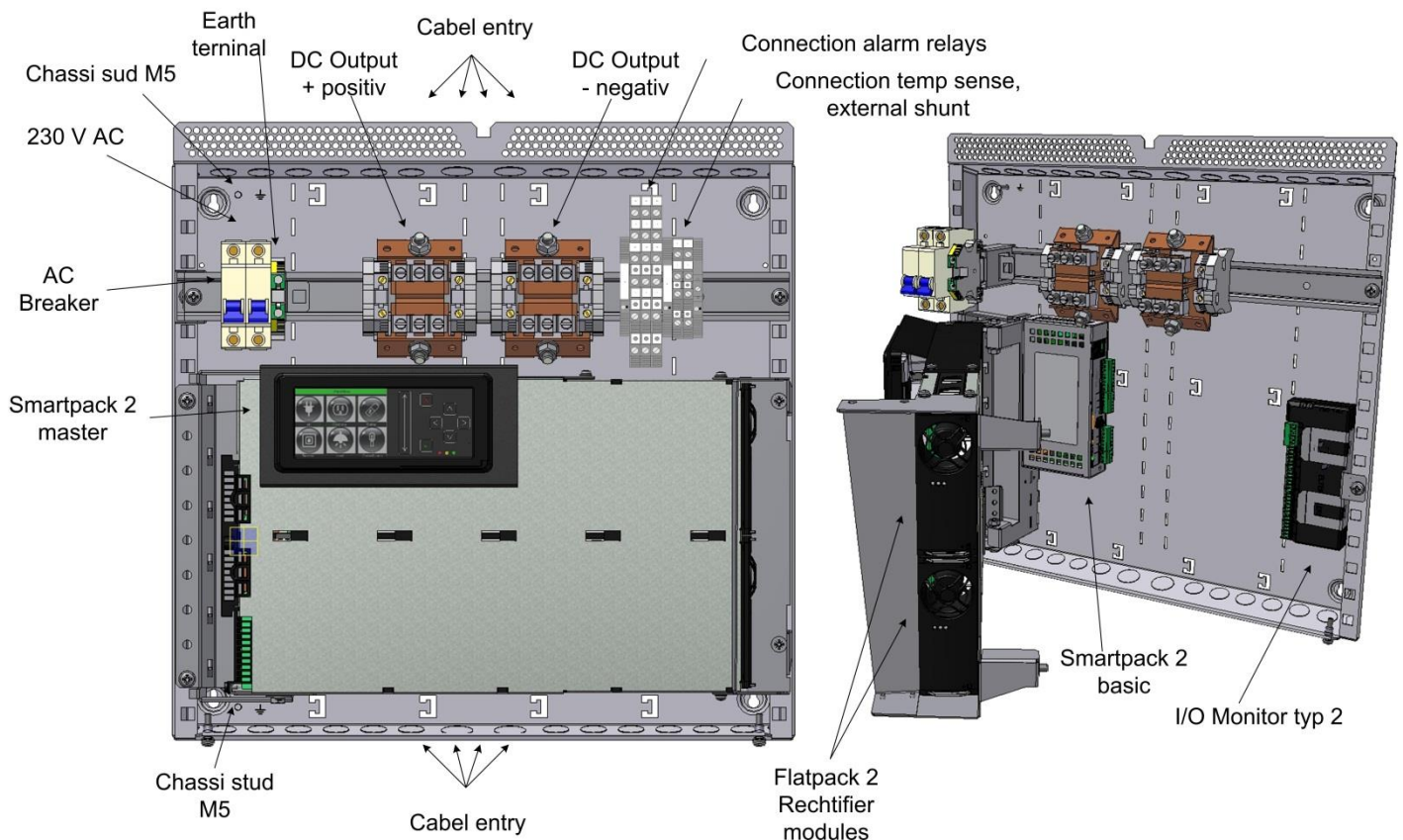
This quick start guide is a brief description to quickly install, commission the wallbox, and eventually configure the monitoring Smartpack2 with the simplest of settings. For detailed information, consult the respective manual for Flatpack2 rectifiers and monitoring Smartpack2.

Preparation

- 1.1 Check the outside of the Wallbox, so nothing has been damaged or loosened in shipment.
- 1.2 Check that the connecting AC and DC voltage is according to the Wallbox system label
- 1.3 Check that the AC power switch is turned off, green mark on the circuit breaker.

Installation

- 1.4 The Wallbox shall be installed only by qualified and experienced person.
- 1.5 The Wallbox is designed for fixed mounting on the wall. The charger must not be placed so that its heated by other radiant heaters, or so that free air circulation of cooling air is prevented
- 1.6 Remove the front cover on the Wallbox by loosening the screws on the bottom and top of the Wallbox



2. Connection

Connection

- 2.1 Connect the AC network on top of the AC fuses, and ground to ground terminals.
The Wallbox shall be connected to fuse in the AC Central.
Recommended AC fuse (see system label) one rectifier module 16A, 2 x rectifier modules 25 A
- 2.2 Connect the DC load to the plus (+) and minus (-) terminals. Connected DC load, shall be connected to fuse in the DC distribution board
- 2.3 Connect alarm cable to the alarm relay
 - 1, 4, 7 = Normally closed (alarm)
 - 2, 5, 8 = Common
 - 3, 6, 9 = Normally open (alarm)

X1 :1-3 A-Alarm
X1 :4-6 B-Alarm
X1 :7-9 Sum Alarms

The alarm function can be tested via the front panel of the charger (see section test the relay 3.1)

2.4 Option

Connect temperature sensor to terminal X2 :1-2
Connecting external battery shunts sensing to terminal X2 :3-4

- 2.5 Mount the front cover on the Wallbox

Commissioning

- 2.6 Ensure that the charger is off and the battery and the load are disconnected in DC board.
- 2.7 Start the Wallbox and check that the output complies with battery manufacturer's instructions.
- 2.8 Turn off the charger
- 2.9 Connect the battery and load in the DC distribution board
- 2.10 Start the Wallbox

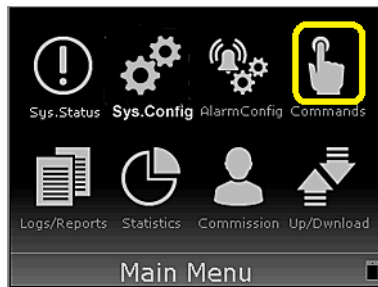
3. Test and reset of alarm relays









This section describes the basic parameters that can be tested and reset from the front panel of the controller unit. For other settings is recommended to use the Power Suite or the web interface that is built into the controller.








Test of alarm relay

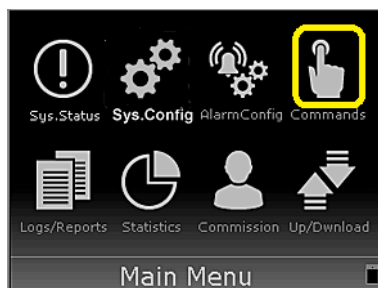
- 3.1 Press the following keys to enter the main menu,  ,  ,  , 
- 3.2 Choose menu Commands,  , 









- 3.3 Choose menu Output Test,  , 
- 3.4 Choose the relay to be tested, 
- 3.5 Press  and indicate PIN-Code 0003 by pressing  three times, press 
- 3.6 Press the following keys to test the relay,  , 
- 3.7 The alarm relay automatically returns to normal after 10 seconds

Reset of alarm

- 3.8 Press the following keys to enter the main menu,  ,  ,  , 
- 3.9 Choose menu Commands,  , 









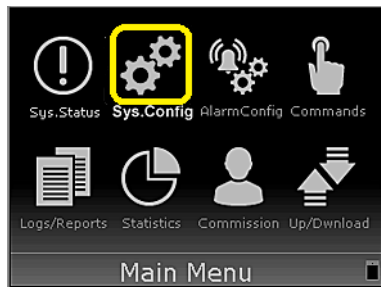
- 3.10 Choose menu System Commands, 
- 3.11 Choose reset manual alarms
- 3.12 Press  and indicate PIN-Code 0003 by pressing  three times, press 
- 3.13 Press the following keys to reset the alarm relay,  , 












4. Setting the charge voltage

This section describes the basic parameters that can be set from the front panel of the controller unit. For other settings is recommended to use the Power Suite or the web interface that is built into the controller.







Setting of the charging voltage

- 4.1 Before adjusting the charging voltage check if the Wallbox has a connected temperature sensor, which regulates the charging voltage according to ambient temperature.
- 4.2 If the Wallbox have a connected temperature sensor, switch the temperature compensation off as described below.
- 4.3 Press the following keys to enter the main menu ,  ,  ,  , 
- 4.4 Choose menu Sys Config,  , 












- 4.5 Choose menu Power Systems, 
- 4.6 Choose menu System Voltage levels,  , 
- 4.7 Choose Reference Voltage
- 4.8 Press  and indicate PIN-Code 0003 by pressing  three times, press 
- 4.9 Adjust to the desired charging voltage with the arrow keys  ,  ,  , 
- 4.10 Confirm by pressing 





On / Off temperature compensated charging voltage

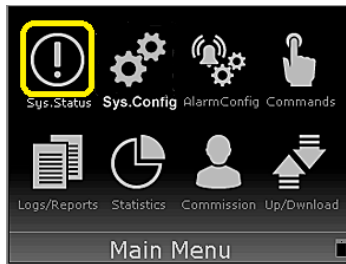
- 4.11 Press the following keys to enter the main menu ,  ,  ,  , 
- 4.12 Choose menu General Sys Config,  , 



- 4.13 Choose menu Battery,  , 
- 4.14 Choose menu General Battery Config, 
- 4.15 Choose Temp Compensation on/off, 
- 4.16 Press  and indicate PIN-Code 0003 by pressing  three times, press 
- 4.17 Press the following keys to shut off the temperature compensation,  , 
- 4.18 After setting the charging voltage, repeat from 4.11 to activate again

5. Menus i Smartpack 2 controller

Press the following keys to enter the main menu ,  ,  ,  , 



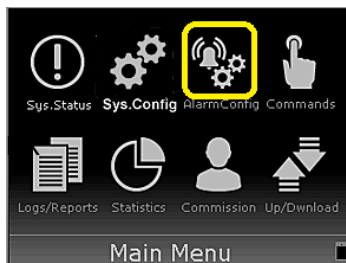
System status

Read out system status, as incoming AC network rectifier status, battery status, alarms, etc



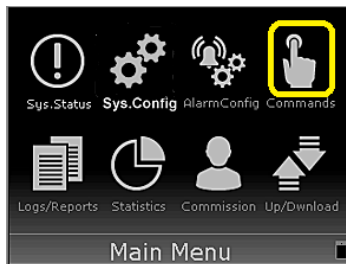
System Configuration

Setting the charge voltage, temperature compensation, change the number of cells in the system, etc



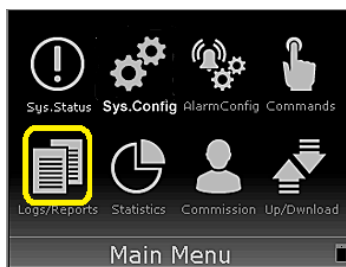
Alarm Configuration

Changing alarm limits, time delays, alarm groups, etc.



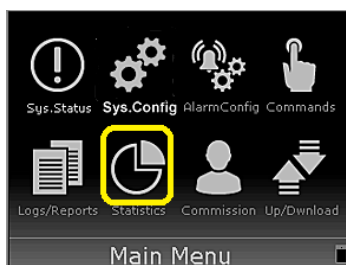
Commands

Reset the alarm, test the output relay, start boost charge, delete event list, start battery test, etc.



Event history

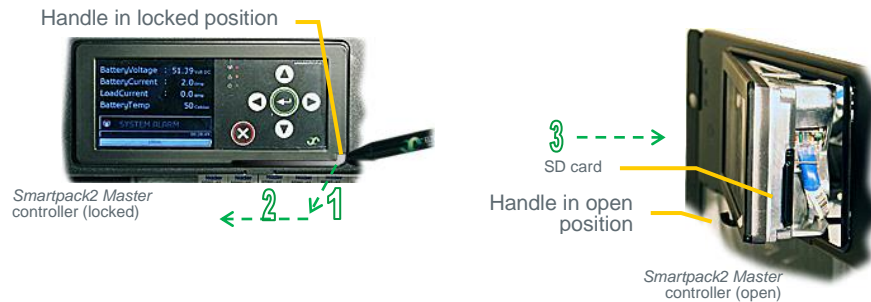
Active alarms, event listings, battery test log, etc.



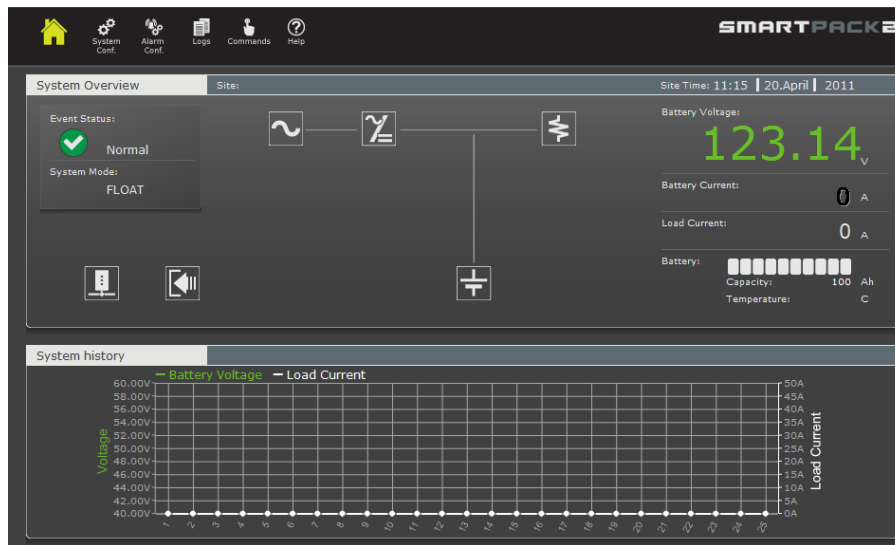
Statistics

Statistics about max, min DC voltage, max, min AC voltage, etc.

Communication settings via LAN Port



Open the controller by pushing the handle toward you with your finger or pen.
Connecting the LAN cable via RJ-45 socket into the controller.



User password

Status, Status
Control, Control
Admin, Admin

Open the Web interface, by entering 192.168.10.20 in web browser

Smartpack2 can also be set by using our Windows software Power Suite 3.3

