BECAFZAR INDUSTRAIL UPS HMI MONITORING SYSTEM



HMI panel description:



Different charger modes selector button :

- 1- FLOAT
- 2- BOOST
 NOTE 1: after pre set time charger will return to float mode
 NOTE 2: adjustment of float and boost voltage is possible by P14,P13 on charger PCB.
- 3- AUTOMATIC mode: if main power black-out take place longer than pre set time on HMI panel or battery voltage drops below the pre set level on PLC then the system will apply BOOST charge automatically and after pre set time charger will return to FLOAT mode.

ALARM RESET button: use this button as alarm silence.

SET POINTS BUTTON:

By pressing this button and entering correct password you can enter to set points page.





You can adjust some of parameters of system in this page :



Note : 3 above voltage level only specify the HMI alarm level and they don't affect on system hardware.

The protection levels which perform DC cut-off or inverter cut-off are adjusted in the charger & inverter PCBs.

In this page by pressing CALIBRATION button you can enter following page:



This page uses for reading the important values of system as above, also this page is used in the factory tests for adjusting interface circuits.

Home: by pressing this button you can go to main page

ALARM LOG:

When you click on this button you can enter the event log page.

In the event log page you can see all the alarms with their occurring time.



BACK UP: you can insert a flash memory in to HMI special socket ant then by clicking on the back up button you will have the file of recorded events on your flash memory. For reading this file you should use the HMI software.

GRAPH button:

Click on this button to enter the curves page.

As you can see bellow 8 important parameters of the system have been indicated in this page

The HMI read the values each 0.5 sec and shows the data in real time trends.



BATTERY CHARGING / DISCHARGING ARROW:



Alarms :



INDICATORS:



Three positions make before break bypass switch:



1. AUTO : this is the normal position of this switch which the A and B contacts are closed and C contact is open.

2. TEST : in this position B and C are closed and A is open. This position is used for test.

3. MAINTENANCE BYPASS: in this position A and B are open and only C is closed.