

Voltage sensor failure

OFF

Temperature sensor failure

When the cell temperature exceed 20 °C, the cell temperature failure warning will be activate.

Current sensor failure

OFF

Button switch failure

The failure of power switch would activate the button switch failure warning

Cell voltage difference failure

If the voltage difference value exceeds the setting value, cell voltage difference failure will be activated.

Charging switch failure

OFF

Discharging switch failure

OFF

Current limiting switch failure

OFF

Cell high voltage warning

When an individual cell voltage value exceeds the setting value, the cell high voltage warning will be activated, and BMS would ask the inverter for a Maximum of 10A charging current.

Cell low voltage warning

When a individual cell voltage value is lower the setting value, the cell low voltage warning will be activated.

Cell over voltage protection

When an individual cell voltage value exceeds the setting value, the cell over voltage protection will be activated, and the BMS will cut off the charging MOSFET.

Cell under voltage protection

When an individual cell voltage is lower than the setting value, cell low voltage protection will be activated, and the BMS will cut off the discharging MOSFET.

Cell low voltage forbidden to charge

If an individual cell is lower than the setting value, no charge could be conducted.

Pack high voltage warning

When the pack voltage value exceeds the setting value, the pack high voltage warning will be activated, and the BMS would ask for a Maximum of 10A charging current from the inverter.

Pack low voltage warning

When the pack voltage value is lower than the setting value, the pack low voltage warning will be activated,.

Pack over voltage protection

When the pack voltage exceeds the setting voltage, the pack over voltage protection will be activated, and the BMS will cut off the charging MOSFET.

Pack under voltage protection

When the Pack voltage is lower than the setting value, the pack under voltage protection will be activated, and the BMS will cut off the discharge MOSFET.

Charging high temperature warning

When at the charging status, and the cell temperature exceeds the setting value, the charging high temperature warning will be activated. And the BMS will ask the inverter for a Maximum of 10A charging voltage.

□ Charging over temperature protection

When at the charging status, and the cell temperature exceeds the setting value, the charging over temperature protection will be activated. And the BMS will cut off the charging MOSFET automatically.

□ Charging low temperature warning

When at the charging status, and the cell temperature is lower than the setting value, the charging low temperature warning will be activated.

□ Charging under temperature protection

When at the charging status, and the cell temperature is lower than the setting value, the charging low temperature protection will be activated. And the BMS will cut off the charging MOSFET automatically.

□ Discharging high temperature warning

When at the discharging status, and the cell temperature exceeds the setting value, the discharging high temperature warning will be activated.

□ Discharging over temperature protection

When at the discharging status, and the cell temperature exceeds the setting value, the discharging high temperature protection will be activated. And the BMS will cut off the discharging MOSFET automatically.

□ Discharging low temperature warning

When at the discharging status, and the cell temperature is lower than the setting value, the discharging low temperature warning will be activated.

□ Discharging under temperature protection

When at the discharging status, and the cell temperature is lower than the setting value, the discharging low temperature protection will be activated. And the BMS will cut off the discharging MOSFET automatically.

□ Ambient high temperature warning

When the ambient temperature exceeds the setting value, the ambient high temperature warning will be activated.

□ Ambient over temperature protection

When the ambient temperature exceeds the setting value, the ambient high temperature protection will be activated. And the BMS will cut off both charging and discharging MOSFET automatically.

□ Ambient low temperature warning

When the ambient temperature is lower than the setting value, the ambient low temperature warning will be activated.

□ Pack over temperature cooling

Preserved functions

□ Over current protection (Transient)

Within the setting period, when the discharging current is lower than the setting value, the transient current over-current protection will not be activated.

Recovery conditions: charging or 60 seconds after the protection conducted.

□ Transient over current locking

If the transient current over-current protection was continuously activated for 5 times, the transient over current locking will be activated.

Recovery conditions: charging

□ Discharging current short circuit protection

When the discharging current exceeds 500A, and the duration is 100us exceeds the setting duration, the discharge current short circuit protection will be activated.

Recovery conditions: charging, or 60 seconds after the protection conducted.

□ Discharging current short circuit locking

If the discharging current short circuit protection was continuously activated for 5 times, the discharging current short circuit locking will be activated.

Recovery conditions: charging

□ Cell low temperature heating

When at the charging status, if the cell temperature is lower than the setting value, the heating function will be activated.

□ Ambient under temperature protection

When the ambient temperature is lower than the setting value, the ambient under temperature protection will be activated. And the BMS will cut off both discharging and charging MOSFET automatically.

□ MOSFET high temperature warning

When the MOSFET temperature exceeds the setting value, the MOSFET high temperature warning will be activated.

□ MOSFET over temperature protection

When the MOSFET temperature exceeds the setting value, the MOSFET over temperature protection will be activated. And the BMS will cut off both discharging and charging MOSFET.

□ Charging over current warning

When at the charging status, if the charging current exceeds the setting value, the charging current over-current warning will be activated.

□ Discharging over current protection

When at the discharging status, if the discharging current exceeds the setting value, the charging current over-current protection will be activated. And BMS will cut off the discharge MOSFET automatically.

□ Charging over current protection

When the charging current exceeds the setting value, the charging over current will be activated. And the BMS will cut off the charging MOSFET.

□ Intermittent power supply function

When the SOC reaches 100%, if the SOC exceeds the setting value (which is 96%), the charging MOSFET will be cut off. And the battery can not be charged.

□ Remaining capacity warning

When the SOC percentage is lower than the setting value, the remaining capacity warning will be activated.

□ Remaining capacity protection

When the SOC percentage is lower than the setting value, the remaining capacity protection will

be activated. And the BMS will cut off the discharge MOSFET.

Output reverse polarity protection

OFF

Connection failure

OFF

Output soft start function

When the BMS is power on, the voltage value between P+ terminal and P- terminal will get closer to the battery real voltage gradually.

Charging equalization function

When at the charging status, if the cell voltage is higher than setting value, and the voltage difference value exceeds the setting value, the BMS charging equalization function will activated.

Equalization over time forbidden

When the equalization period exceeds the setting time, the charging equalization function will be turned off.

Equalization over temperature forbidden

When at the charging over temperature protection status, equalization function can not be activated.

Automatic charging activation

OFF

Active charging current limiting

When the active charging current limiting function is turned on, the charging current will be limited to 10A.

Passive charging current limiting

When charging current exceeds the setting value, the passive charging current limiting function is turned on. And the charging current will be limited to 10A.

Switch turn-off function

To control the external switch status, if this function is turned on, the RESET button will be invalid.

History record function

Click to record the historical data of the battery

LCD display function

To control the function of the LCD Screen button.

Warning protection connection point

OFF

multiple circuits expansion connection point

OFF