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power your applications

Optional functions of charger

Shenzhen EverExceed Industrial Co., Ltd
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Earth fault monitoring

The earth fault monitoring function monitors the insulation resistance of the DC-output to earth. Plus and minus are measured and monitored alternately. If the insulation resistance value drops below the set value (adjustable from 100 kOhm to 1 MOhm), this will be indicated by the LEDs and the common alarm.

Temperature compensation

Because the internal resistance of the battery is related to the ambient temperature. The internal resistance is larger at low temperature and smaller at high temperature. The temperature compensation function is to check the ambient temperature when charging, and then adjust the charging voltage appropriately according to this temperature. This will ensure the life of the battery.

Parallel configurations

There are two parallel functions, one is a standby type, when one charger fails, the other one will work automatically. Another one is the load-sharing type, where two chargers work at the same time and each share 50% of the load current. Customers need to choose according to their needs.

Blocking diode

It uses the unidirectional conduction and reverse non-conduction function of the diode to prevent the current from flowing backward.

Adding this diode can prevent the current of other devices from flowing back into the charger, which may cause damage to the charger.

Battery test function

The principle of battery testing is to discharge the battery through a resistive load and observe the voltage changes of the battery . If the battery voltage drops quickly, the battery capacity is insufficient and the battery needs to be replaced.

Battery low voltage disconnect (LVD)

When the Mains power fails, the battery will be in a discharge state. The battery low-voltage disconnect function is a function to prevent the battery from over-discharging which can damage the battery. So as to extend the life of the battery

Dropping diodes/DC-DC converter

The function of the step-down silicon chain is to stabilize the voltage at the load end. Since the voltage is always changing when the charger is charging the battery, the range of voltage change for each system is different. When the DC load is connected, if the input voltage range of the load cannot

withstand the change range of the charging voltage of the charger, the load may be damaged. At this time, it is necessary to connect a dropping diodes to stabilize the voltage at the load end. If the load input voltage range can withstand the charging voltage variation range, there is no need to connect the dropping diode.

LED test function

This function is to test whether the LED lights on the cabinet are faulty, and to prevent when the charger fails, the LED lights are damaged and cannot indicate the fault of the charger.

AC high and low alarm/protection

When the AC voltage exceeds the set range, the alarm or trip of charger will occur

DC high and low alarm/protection

When the DC voltage exceeds the set range, the alarm or trip of charger will occur

Front-panel analog meters/digital meters

An electric meter indicating input voltage and current, output voltage and current. Customers can choose analog or digital meters according to their needs.

Modbus TCP/IP and DNP3.0 protocol

Our default configuration is modbus RTU protocol with RS232 communication. Customers can choose DNP3.0 or modbus TCP/IP or IEC61850.

DC breaker and DC distribution

These are not included by default. DC MCCB or MCB or DC power distribution can be added according to customer needs

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EverExceed | Empower, Energize, Exceed the Energy you Expect forever.

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