Common Fault and Handling

Fault Phenomenon	Possible Reason	Solution
LCD no display after connected with battery	● Battery Low ● Battery Reverse Connection ● The connection cut off	Please confirm the voltage of battery reconnect the controller with battery firmly and correctly.
Full of sunshine vertical on solar panel, no solar symbol and no charge symbol on LCD.	The solar panel connection open circuit, short circuit, or reverse connected	Please check the cable of solar panels if they are correct connection and firmly.
The controller displaying LVD	The battery is over discharging	Please check the system design is reasonable or not. If there is discharging capacity more than charging.
The controller displaying HVD	The voltage of battery is high	Please first cut off the solar panel and see if the voltage get down normal level. If the fault do not finish, please cut off the battery with controller and reconnect again.
The controller displaying Over Current Protection	The load is short circuit, or over load or high surge power	Please check the load cables have short circuit, the power of the load over rated design, the surge power of load too high.

Technical Data

Model		
System Voltage	12V/24V	48v
Max. Input Voltage of solar panel	55V	100V
Self-consumption	≤10mA	≤12mA
Max. charge current	20A/30A/40A	
Max. discharge current	20A/30A/40A	
LVD	11.0V ADJ 9V....12V；×2/24V；×4/48V	
LVR	12.6V ADJ 11V....13.5V；×2/24V；×4/48V	
Float Voltage	13.8V ADJ 13V....15V；×2/24V；×4/48V	
Boost charging	14.4V ；×2/24V；×4/48V Battery Voltage less than 12Vstart boost charging 2 hours	
Battery Over Voltage Protection	16.5V ；×2/24V；×4/48V	
ReverseConnection Protection	yes	
Load Over Current Protection	Yes, each two minutes restart once	
Charge Type	PWM	
Temperature Compensation	-24 mV /℃ for 12V system ；×2/24V；×4/48V	
Working Temperature	-20℃---+55℃	
Terminal Scale	14---6 AWG 16mm^2	
Waterproof grade	IP32	
Size	190mm×108 mm×41.5mm	
Netweight	410g	

Please refer to software user's manual for RS485 communication interface equipped.

Subject to change without notice

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