

Display Page/Parameter Setting



① Home Screen



② Environmental Temperature



③ Charge Current



④ Discharge Current



⑤ Cumulative Charge Amp Hours

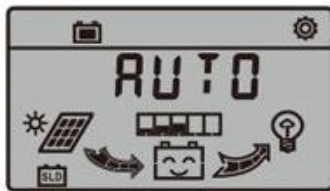


⑥ Cumulative Discharge Amp Hours



⑦ Battery Type

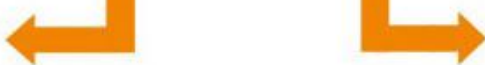
Press and hold the menu button for 5 seconds to set the battery type in this screen.



⑧ Automatic System Voltage Recognition or Lockout

Circulation Interface

Short press on the menu key to cycle through all screens.



⑨ Float Charge Voltage

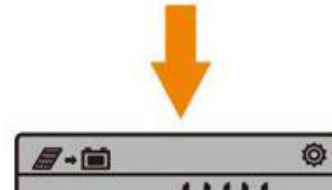


⑨ Restore Charge Voltage

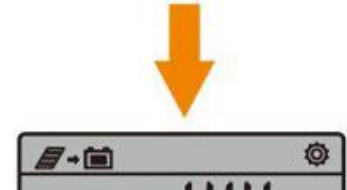
Parameter Setting

Short press menu key on the ① interface to enter each setting page. If there is no key operation within 50s and the controller is not faulty, interface will automatically jump to ① interface. Jump to ⑭ when there is a fault.

⚙ symbol indicates interface can be set
⚠ symbol indicates interface is not set



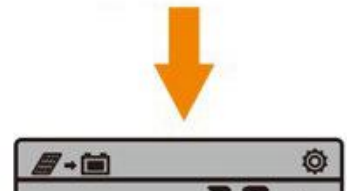
⑩ Boost Charge Voltage



⑩ Stop Charge Voltage



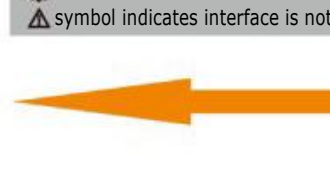
⑪ Undervoltage Protection



⑪ Stop Charge Current



⑫ Undervoltage Recovery



⑬ Load Operating Mode Setting
Press and hold for five seconds to enter setting



⑭ Fault Code Interface
Not appear in the loop when there is no fault



Troubleshooting Guide

Fault Code	Reason for Failure	Prescription
E01	Battery voltage is too low, controller has turned off the load.	Charging the battery or replacing it with a new one
E02	Load output overload, controller shuts down load.	Reduce the load, then use the minus key to turn the load on or wait 2 minutes for the controller to automatically turn the load on
E03	Load output is short-circuited, the controller shuts down the load.	To remove a short-circuit fault from a load, use the minus key to switch the load on.
E04	Battery voltage is too high, controller shuts down loads.	Check that the battery connection cable is not loose, check that the battery capacity is not too small, check that another charging device is not connected to the battery
E05	The output current of the solar panel exceeds the rated current, causing the controller to stop charging.	Check whether the configuration power of solar panels is too large, reduce the number of solar panels connected in parallel, and the controller will start charging automatically after 2 minutes.

Charge Management

Lead-acid Battery

3-Stage Charging Control (Bulk, Boost, Float)	Sealed	GEL	Flood	USE1
Float Voltage	13.8V	13.8V	13.8V	13.8V (9~15V adjustable)
Boost Voltage	14.4V	14.0V	14.6V	14.4V (9~15V adjustable)
Boost Time	2h			
Boost Recovery Voltage	12.6V			
Charge Limit Voltage	15.5V			
Temperature Compensation	-4mV/cell/°C			

Lithium Battery

3-Stage Charging Control (Bulk, Constant, Stop)					
Lithium Battery	3.7-3.3	3.7-4	3.2-4	3.2-5	USE2
Constant Voltage	12.6V	16.8V	14.4V	18.0V	14.4V (9~17V adjustable)
Charge Cut-off Current	2A (0.1A~30A adjustable)				
Recovery Charge Voltage	12.0V	16.0V	13.6V	17.0V	13.6V (9~17V adjustable)

Discharge Management

Battery Type	Lead-acid Battery	Lithium Battery				
		3.7-3	3.7-4	3.2-4	3.2-5	USE1
Under-voltage Protection	10.7V (9~15V adjustable)	9.9V	13.2V	11.2V	14.0V	11.2V(9~17V adjustable)
Under-voltage Recovery	12.6V (9~15V adjustable)	11.1V	14.8V	12.8V	16.0V	12.8V(9~17V adjustable)
Over-voltage Protection	16.0V	18.5V				
Over-voltage Recovery	15.5V	18.0V				
USB Power Source	Output is a 5V USB interface, with a maximum output of 2A					

Battery Voltage Recognition Range

Battery Type	Lead-acid Battery	Lithium Battery				
		3.7-3	3.7-4	3.2-4	3.2-5	USE2
12V System	≤17V	≤14.6V	≤18.8V	≤16.4V	≤20V	≤16.4V
24V System	≤30V	≤26.2V	≤34.6V	≤29.8V	≤37V	≤29.8V
36V System	≤40.8V	≤38.2V	≤50.8V	≤43.6V	≤54.4V	≤43.6V
48V System	>40.8V	>38.2V	>50.8V	>43.6V	>54.4V	>43.6V

Note: The above parameter setting takes 12V system as an example, if it is used for 24V/36V/48V system, each voltage parameter value *2/*3/*4.