User's Manual (B version)

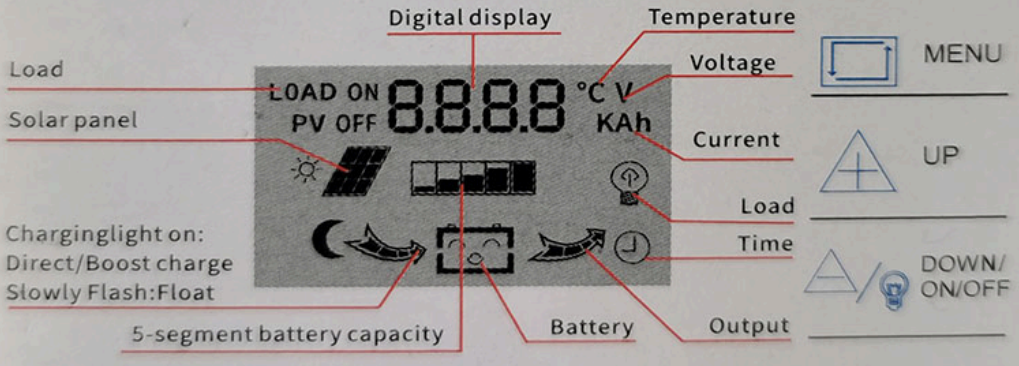
SAFETY INSTRUCTIONS

1. Make sure your battery has a high enough voltage for the controller to identify the battery type before the first installation.
2. Install the controller as close to the battery as possible to avoid voltage drop caused by too long wire, which will affect the normal voltage judgment of the equipment.
3. This controller is only applicable to all kinds of lead-acid batteries (including Open type, VRLA, GEL, etc.), do not charge other batteries (including lithium batteries, NiMH batteries, etc.).
4. This controller can only use PV panel as the charging power , do not use DC or other power as the charging power.
5. This controller can only be used with PV panel as the input charging power , do not use DC or other power as the input charging power.

PRODUCT FEATURES

1. Industrial level master chip is adopted.
2. Large screen, LCD display, adjustable charging and discharging parameters.
3. Complete 3-stage PWM charging management.
4. Built in over-current protection, short circuit protection, open circuit protection and reverse connection protection are all self recovery type, without damaging the controller.
5. Dual MOS anti back flow circuit, ultra-low heat output

LCD DISPLAY / KEY

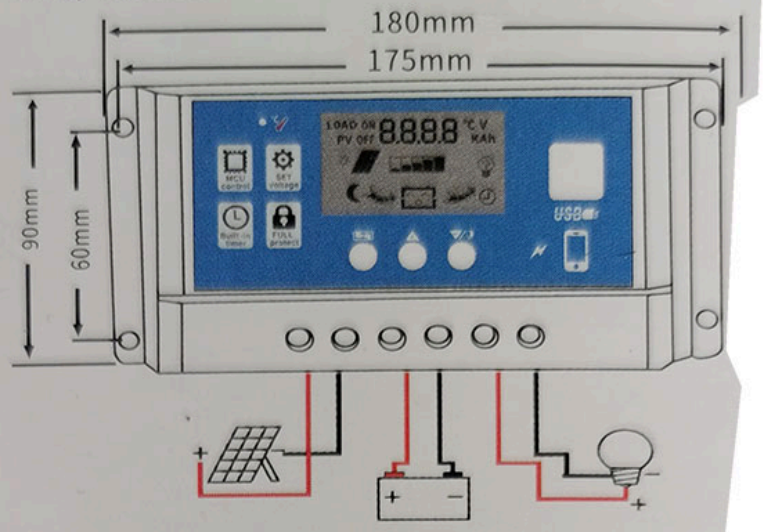


Menu key: switch parameter display interface, long press 5s to enter or exit parameter setting.
Page up: in the parameter setting interface, press once to increase the parameter by one gear.
Page down: there are two functions: 1. In the parameter setting interface, press once to move the parameter up and down. 2. Turn load off or on.

SYSTEM CONNECTION

1. Connect the positive and negative terminals of the battery with the controller as shown in the diagram, and the controller will automatically detect the battery voltage.
2. After the load is closed.Connect the positive and negative terminals of the load with the controller as shown in the diagram, pay attention not to reverse connection, and open the load after connecting.

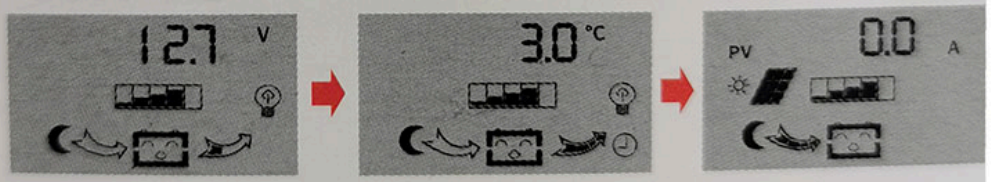
3. Connect the solar panel with the controller as shown in the diagram.
4. Wire removal standard: first remove the solar panel, then the battery, and finally the load.



Warning:Any operation that does not comply with the operation standards in this menu, will have no relation to the quality of this product.

LCD DISPLAY / SETTING

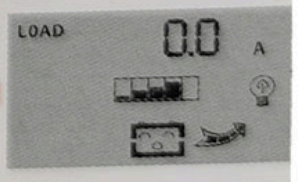
Browsinginterface: Press MENU to browse different interface
Set parameter:In the 7th to 11th interfaces, press the menu key for 5S ds to enter the submenu, press the up and down keys to select the req uired adjustable value. After 5 seconds of selection, the set value will b e saved automatically and exit the submenu to return to the main inter face.



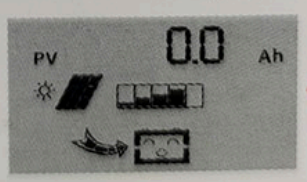
1.Main display

2.Environment temperature

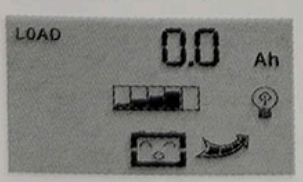
3.Charging current



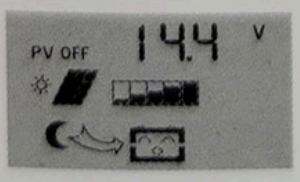
4.Discharging current



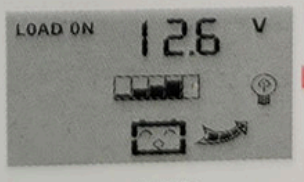
5.Charging power



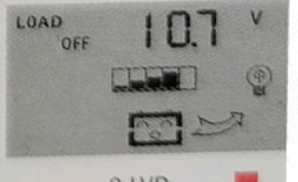
6.Discharge power



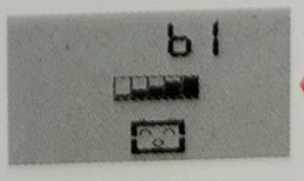
7.Float charge voltage



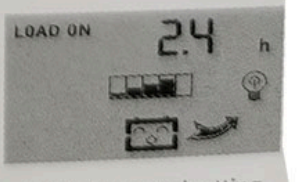
8.LVR



9.LVD



11.Battery type



10.Light control setting

Setting of light control delay mode: 24h ON mode by default
24h:Normal working mode of the load, no time limited, manually turn On/Off the DC output of the load
00h:The DC output for load is automatically turned off when there is sunlight, and turned on automatically when there is no sunlight.
01-23h:Turn off the load according to the set time.
Setting: Press the mune key selec the figure(10),long press the menu key for about 5 seconds, and the screen will flash. Press the up key to select (24h / 00h / 01h). Select the mode according to the demand, it will stay for about 5 seconds and then return to the main interface automatically.

TROUBLE SHOOTING

Abnormal situation	Possible causes	Methods of solution
Sunny but not charged	Open circuit or reverse connection of PV panel	Reconnect the PV panel
Load icon slowly flash	Mode setting wrongly	Reset
Load icon fast flash	Short circuit protection	Remove short circuit and recover automatically
Controller is not on	Battery voltage too low or reversed	Replace the battery / check the reverse connection

TECHNICAL PARAMETER

Model	YJSS40	YJSS50	YJSS60
System volt	12V / 24V auto adapt		
Rated charging current	40A	50A	60A
Rated discharge current	20A	20A	20A
Max solar current	12V max solar current 25V;24V max solar current 50V		
Charging completed volt	b1 Sealed	b2 Gel	b3 Flood t
	14.4V	14.2V	14.6V
Floating charging volt	b1/14.4V,b2~14.2V,b3~14.6V,ladjustable:13V-15V		
LVD	10.7V,adjustable:9.5V-11.5V		
LVR	12.6V,adjustable:11.5V~13V		
Standby current	< 10mA		
USB output	2 USB Output;5V/2A(MAX)		
Operating temperature	-35~+60℃		
Size/Weight	180*90*45mm/290g		

*The voltage marked in red font only corresponds to 12V system, if using 24V system, please x2
*Product rules are subject to change without notice.