

User's Manual

SAFETY INSTRUCTIONS

1. **Make sure your battery has enough voltage** for the controller to recognize the battery type before first installation.
2. The battery cable should be as short as possible to minimize loss.
3. The regulator is only suitable for lead acid batteries: OPEN, AGM, GEL. **it is not suited for nickel metal hydride, lithium ions or other batteries.**
4. The charge regulator is only suitable for regulating solar modules. **Never connect another charging source to the charge regulator.**

PRODUCT FEATURES

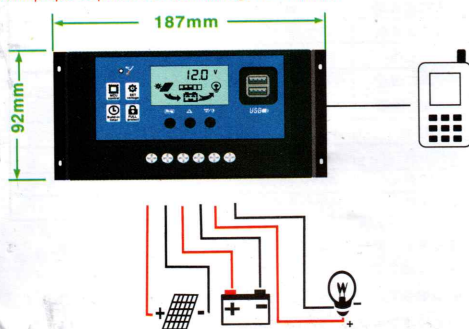
1. Build-in industrial micro controller.
2. Large-screen LCD display, charging and discharging current display, cumulative power generation and discharge power query, temperature display, light control + delay control; adjustable charge and discharge parameters, with power-off memory and other functions.
3. Dual USB output, the maximum current of 2.5A, to support Apple's mobile phone charging.
4. Fully 3-stage PWM charge management.
5. Build-in short-circuit protection, open-circuit protection, reverse protection, over-load protection.
6. Reverse current protection, low heat production.

SYSTEM CONNECTION

1. connect the battery to the charge regulator-plus and minus.
2. Connect the photovoltaic module to the regulator-plus and minus.
3. Connect the consumer to the charge regulator-plus and minus.

The reverse order applies when deinstalling!

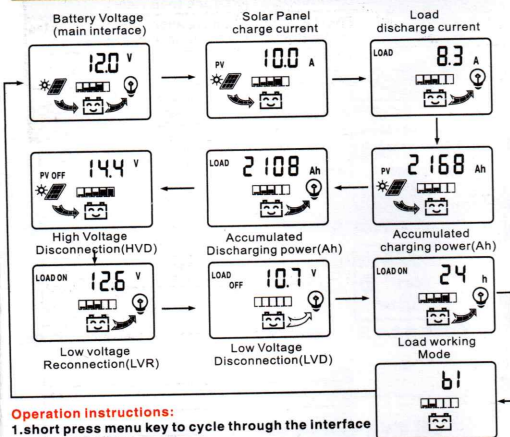
An improper sequence order can damage the controller!



LCD DISPLAY/KEY



DISPLAY/SETTING



Operation instructions:

1. short press menu key to cycle through the interface and parameters;
2. long press the menu button for 3S to enter the settings manually, this number will be flashing, into the corresponding set project on turn, turn key adjustment parameters you want value, after the completion of the system of automatic memory setting value and exit setup menu;

Function declaration:


1. discharge recovery voltage: refers to the battery discharge protection, the battery voltage to restore voltage, open the output;
2. the discharge cut-off voltage: refers to the battery discharge to the voltage when the load off, to protect the battery, to prevent the battery over discharge damage.

3. load operation mode:

[24H] Load output 24Hours (except for battery under voltage)

[1-15H] Load on after sunset and closed after setting hours

[0H] Dusk to dawn [W666]

1, the light control function is controlled by the solar panel, the use of light control function must access the solar panel, otherwise the light had no effect.
2.Load symbol 【】 Light, only that the load output has been turned on, and there is no connection to the load.

long as it is not set to 【1-15H】 Or 【0H】 model,(The optical lay model),Battery not under pressure condition(Battery mbol does not blink). Single short press the turn key can en /Close load output .

TROUBLE SHOOTING

Situation	Probable cause	Solution
Large icon not when sunny	Solar panel opened or reversed	Reconnect
Load icon off	Mode setting wrong	Set again
	Battery low	Recharge
Load icon slow shining	Over load	Reduce load watt
	Short circuit protection	Remove short circuit, 1 minutes or so automatic recovery
Power off	Battery too low/ reverse	Check battery/connection

TECHNICAL PARAMETER

MODEL	W666A	W666B	W666C	W666D
Input voltage	12V/24V auto			
Charge current	30A	40A	50A	60A
Discharge current	10A	20A	30A	30A
Max solar input	12V battery, the highest 23V; 24V battery when the highest 46V			
Equalization	14.4V			
Float charge	13.7V (default,adjustable)			
Charge stop	10.7V (default,adjustable)			
Discharge reconnect	12.6V(default,adjustable)			
Charge reconnect	13V			
Delay of open light	Solar panel 8V(Light lights delay)			
Delay of close light	Solar panel 8V(Light off delay)			
USB output	2 way USB output. 5V/2.5A(MAX)			
Self-consume	<10mA			
Operating temperature	-35 ~ +60C			
Size/Weight	193 * 51 * 98mm / 390g			

red color voltage x2 while using 24V system

This instruction is a general manual, such as a slight difference in the physical.

Product specifications are subject to change without prior notice