User's Manual

SAFETY INSTRUCTIONS

 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.

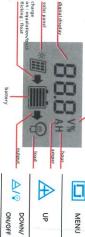
2.Big LCD display,all adjustable parameter

3. Fully 4-stage PWM charge management.

4.Build-in short-circuit protection, open-circuit protection, reverse protection, over-load protection.

5.Dual mosfet Reverse current protection, low heat production.

LCD DISPLAY/KEY



MENU: switch between different display, or to enter/exit setting by long press.

UP: press to increase value.

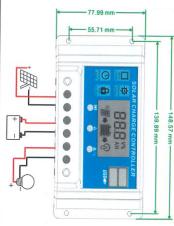
DOWN:presss to decrease value

SYSTEM CONNECTION

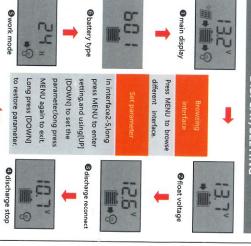
- Connect the battery to the charge regulator plus and minus.
- 2. Connect the photovoltaic module to the regulator plus and minus
- Connect the consumer to the charge regulator plus and minus.

The reverse order applies when deinstalling!

An improper sequence order can damage the controller!



DISPLAY/SEETING



Attn:

1.press the [Down] button to ON/OFF load manully at main display.

2.the work mode is working as below:

[24H] load output 24hours

[1-23H] load on after sunset and closed after setting hours

Dusk to dawn

TROUBLE SHOOTING

Situation Charge icon not on	Probable cause Solar panel opened	Solution
Charge icon not on	Solar panel opened	Reconnect
when sunny	or reversed	
Load icon off	Mode setting wrong	Set again
	Battery low	recharge
Load icon slow flashing	Over load	Reduce load watt
Load icon slow flashing	Short circuit protection	Auto reconnect
Power off	Battery too low/reverse	Check battery/connection

TECHNICAL PARAMETER

MODE	TVACA	-			-
Batt voltage		12V/24V auto	100		181/
2					
Charge current	10A	20A	30A	10A	20A
Discharge current	10A	20A	30A	10A	20A
Max Solar input	<50V			<80V	
Equalization	B01 sealed		B02 Gel	B0:	B03 flood
Lycametanon	14.4V		14.2V	14.6V	6γ
Float charge	13.7V(d	13.7V(defaul,adjustable)	stable)	-	
Discharge stop	10.7V(d	10.7V(defaul,adjustable)	istable)		
Discharge reconnect	12.6V(d	12.6V(defaul,adjustable)	stable)		
USB output	5V/3A				
Self-consume	<10mA				
Operating temperature	-35~+60 °C	ಗೆ			
Size/Weight	150*78	150*78*35mm /150g	150g		

"all red color voltage X2 ,X4 while using 24V /48V system.

*Product specifications are subject to change without prior notice.