SOLAR60,SOLAR80 Solar Charging and discharging Controller

User s Manual



1:Product introduction

Solar LCD series a kind of intelligent, multi-purpose solar charge and discharge controller

LCD screen display	Battery reverse discharge protection		
Easy operation interface	Battery reverse polarity protection		
PWM charging mode	Battery under voltage protection		
Parameter user can reset	Overload, short-circuit protection		
A key to open and close the load	Automatic temperature compensation function		
A key to restore the factory settings	Optional USB 5V charging (for 500mA)		

2: Installation Instructions

Installation

 Ready Qi installation tools and materials, and cable. Please matching suitable cable

Ensure that the current density <4A/mm2 this will help to reduce the line pressure drop.

Recommended: 30A current 10mm2 60A current 20mm2 80A current 25 mm2 cable. Check whether the installation site

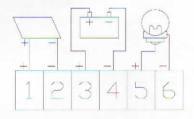
Comply with the relevant safety requirements, avoid damp, dusty, there is easy

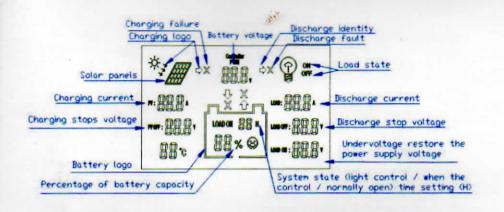
Inflammable, explosive and corrosive gases place to install using the controller

- Install the controller fixed to the vertical plane, see Section V mounting aperture and hole spacing. In order to ensure a good controller cooling conditions, the controller on the bottom of each reserved 10cm space
- As shown on the right wiring sequence: load, battery, solarQ
 Battery plate is connected to the controller to be taken to ensure that the load, battery,
 The polarity of the solar cell panel and controller
- Before use: external temperature sensor probe into the left of the controller temperature probe interface probe placed in similar battery temperature. (Line extension must be built-in devices of the external temperature probe coextensive Otherwise, the controller will control parameters of the temperature compensation of the error
- (6) Warning: In order to prevent accidents from occurring, install: non-professionals can not be engaged in loading and unloading operations

3.LCD operating interface description

1:LCD graphic symbol description





LOAD ON ALL COLL

Chargi	ing current	Discharge current				
set) Voltage	e charging station (can be	(can be set)				
Tempe probe)	erature display (around the	Undervoltage recovery voltage				
2 Function keys:						
: Toggle key	"+"Set parameters: "plus"	"-" Set parameters: Manual switch				
Long press and I	nold this button for 5 seconds	to restore the factory setting	ngs			
"×" error or system	n failure, click this button, you	u can troubleshoot or elimin	ate "x"			
3 Parameter settings (≥	5 seconds keystrokes, para	meters are saved automatic	cally)			
PV OFF:88.8V→L	OAD ON:24H→LOAD OFF:8	88.8V→LOAD ON:88.8V (Set order (automatic cycle)			
+ Parameters "+" se		Parameters "-" setting				
Long press a	'manually" open load or man and hold this button for 5 sec system failure, click this butto	onds to restore the factory				
4 Common fault with	processing methods					
		60				
(0.0)		80.03				

- Under voltage protection and handling: screen display as shown on the right indicates the battery voltage is below the undervoltage protection voltage, the controller has entered undervoltage
- Retaining state, disconnect the load circuit. Using solar panels or charger to charge the battery when the accumulator
- After the battery voltage reaches the undervoltage recovery voltage, the controller will restore
 power to the load, into normal working condition

1) Overload protection and processing methods:

The screen shown at right load circuit current is greater than the rated current or load short-circuit, overload state controller has entered. Reduce the load troubleshooting, press the button, restore power to the load

_		 0.01	_	-	(a) # E
	× 😭 🕳 System fault	P .	0.	@ ~	Fault has ruled out
	- System laute		2 W W		1 4411 140 15104 561

2) To charging failure handling method

a) Solar energy to battery charging, if there is no correct configuration solar panels of power or exceed rated charging current, voltage, will appear charge fault, the checking and debugging, press ** the button, recoverability work.

* _	
* Charge fault	₩ # = 111
Charge fault	Fault has ruled out

3) Solar panels fault and processing:

 a) 24 hours in the case of sun light, the controller is not charging, the solar energy is not connected or not connected correctly, check the solar panel to the connecting cable of the controller is open, troubleshooting, recoverability work.

* -	**-
No solar charge	Are charging

5 Parameter	table
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model Parameters	So	lar30/6	0/80	model Parameters	Solar30 Solar60		Solar80	
Rated working current	30A	60A	BQA	Cable	≤7# AWG (10mm²)	(20mm²)	(25mm²)	
Rated working voltage		12V/24	v	Working temperature				
Solar panels voltage	≤48∨			Storage temperature	-30°C~70°C			
Float charging voltage(settable)	10	3.8V/27	.6V	Humidity requirements				
Low voltage protection(settable)	10).7V/21	.4V	dimension	90 mm×188 mm×50mm	128 mm×188 mm×61mm	128 mm×188 mm×61mm	
Low voltage recovery(settable)	17 50/75 (1)/		Mounting hole spacing	60 лим×178 mmФ5	98mm×178 mm -Φ5	98 mm×178 mmФ5		
No-load loss	No-load loss ≤25mA		weight	≤360g	≤800g	≤1000g		
Loop pressure drop	≤1	60mV		Temperature compensation	-4mV/Cell/°C			
Charging mode		PWM mode						