

SOLAR CHARGE CONTROLLER

SNC Series

User Manual

Thank you very much for buying our product ,Please read thoroughly before using the proucut

Version: 2.0(20191101)

Description of Functions

1. The charge controller automatically recognize 12V or 24V system.
2. Suitable for lead-acid battery, lithium ion battery , LiFePO4
3. LCD display various parameters of charge and discharge.
4. Boost charge voltage and battery low voltage protection point can be adjustable
5. The three-stage PWM charging mode
6. Load output can be manually controlled.
7. With high-precision temperature compensation function.
8. With electronic protection

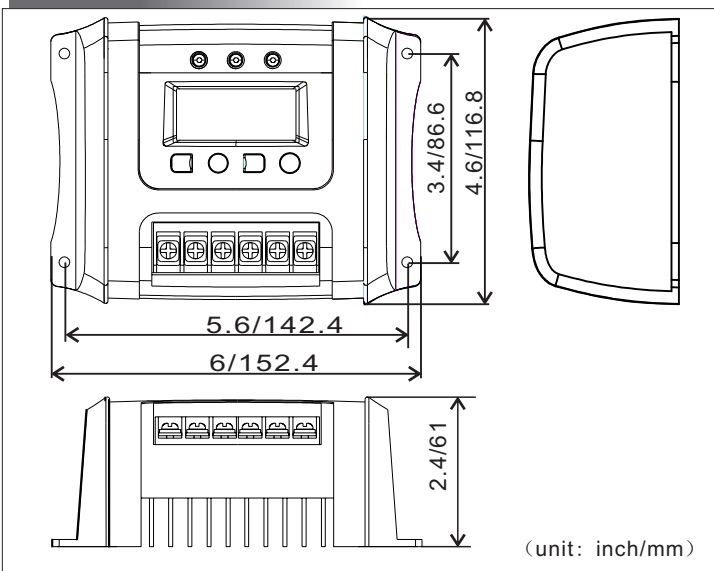
Attentions

The charge regulator is intended for use in photovoltaic systems with 12V or 24V nominal voltages, It shall be used with vented or sealed (VRLA) lead acid batteries only.

Safety Recommendations:

1. Batteries store a large amount of energy. Never short circuit a battery whatever.
2. Batteries can produce flammable gases. Avoid making sparks, using fire or any naked flame. Make sure that the battery room is ventilated.
3. Avoid touching or short circuiting wires and terminals. Be aware that the voltages on specific terminals and wires can be up to double of battery voltage. Use isolated tools. Stand on dry ground and keep your hands dry.

Installation



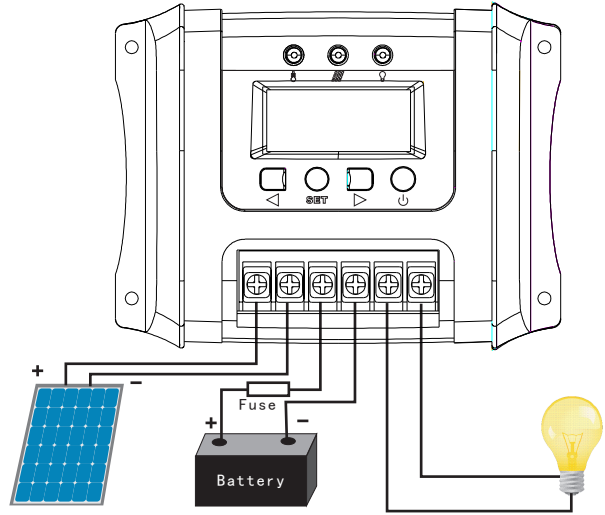
Please installed in the room, avoiding direct-clearance, do not install in the wet environment, when use it outdoor, please install controller and batteries in the same place, and the batteries installed in the same place, the controller can measuring the battery temperature, charge voltage regulation.

Attention:

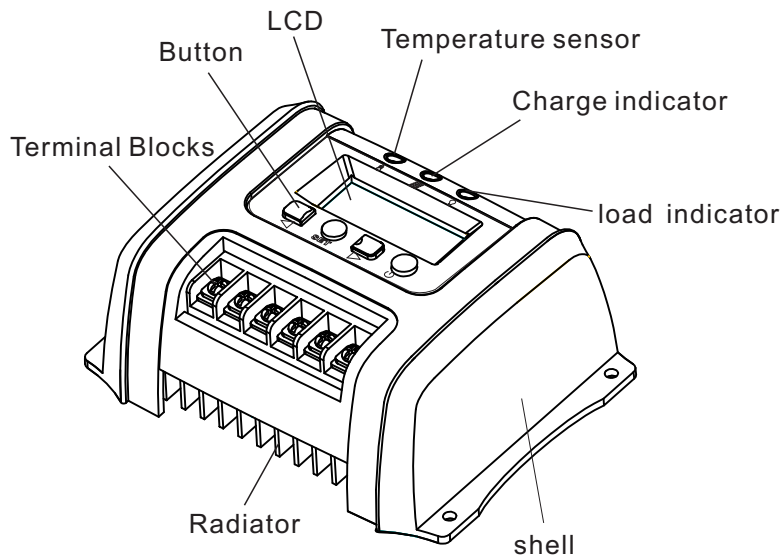
1. Screws specifications M3 × 10
2. Make sure heat-location were not I blocke

Connecting

1. Connect sequence 1. battery --2. solar array --3.loads
2. Wier size: 10A: Min2.5mm²
15A/20A: Min4mm²
30A/40A: Min4mm²
3. Grounding the solar system: Be aware that the positive terminals of the SNC controller are connected internally and therefore have the same electrical potential. if any grounding is required ,always do this on the positive wires.



Part Names



charge indicator (green LED)

- ON: charging
- OFF: no charging

charge indicator (Red LED)

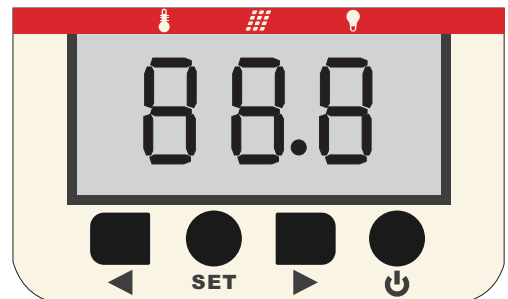
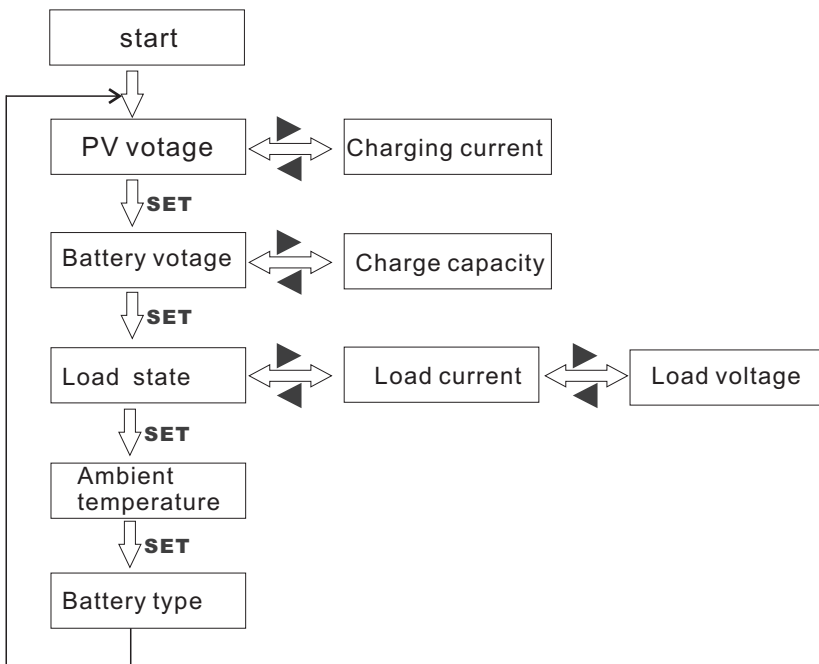
- ON: Stop output
- OFF: Output normal

Battery type

Code	Battery type
61	(AGM, GEL, lead-acid)
L3	Lithium ion battery
P4	LiFePO4

Operating

Parameter Browse

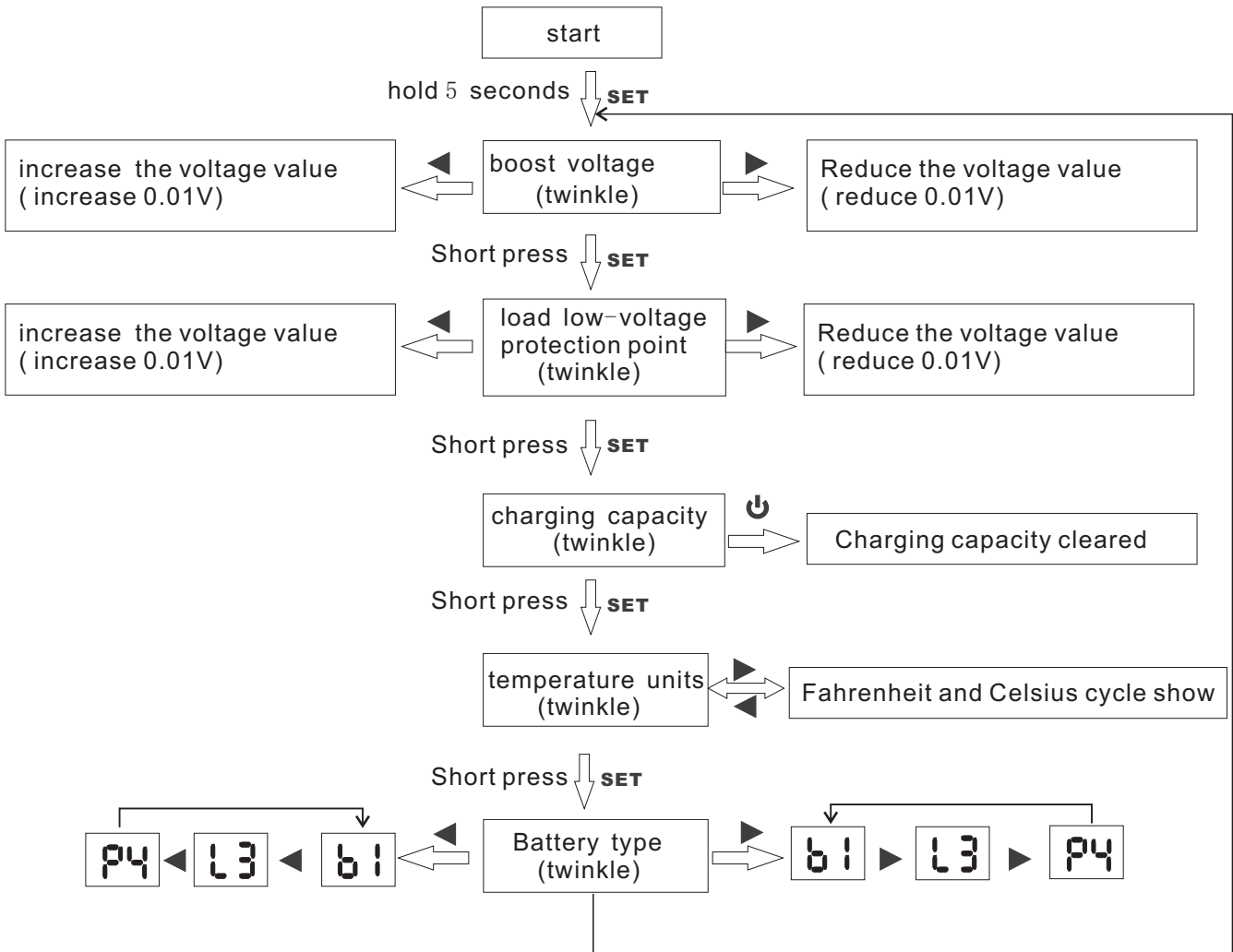
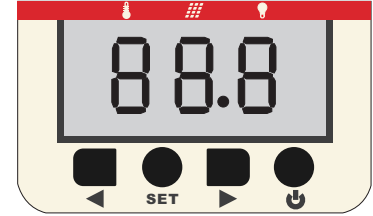


Key Description

	Previous
	Function key, cycle display main menu
	Back
	Load ON/OFF

Setting

1. First set the battery type, and then set the charging parameters, the factory default is lead-acid battery.
2. When you are make setting operation, the related number will twinkle. After you finish the setting, the twinkle will stop and the related number will save.



Technical specifications

MODEL	SNC10	SNC20	SNC30	SNC40
Max.solar panel current	10A	20A	30A	40A
Max. load current	10A	20A	30A	40A
Use voltage	12V/24V,automatic recognition			
battery type	Lead-acid	lithium ion battery	LiFePO4	
Overvoltage protection	15.5V	13.5V	15.5V	
Boost voltage(Modifiable)	14.6V(Default)	12.6V	14.4V	
Over voltage off charge	15.3V	13.5V	15.3V	
Float voltage	13.8V	12.6V	14.4V	
LVD(Modifiable)	10.5V(Default)	9V	10.5V	
Load reconnect voltage	12.5V	11V	12.5V	
Charge control mode	PWM			
Work temperature range:	-35°C--+55°C			
Temperature compensation	-5mv/°C/2V			

above parameters are in 12V system ,please double the values in 24V system