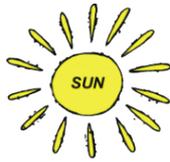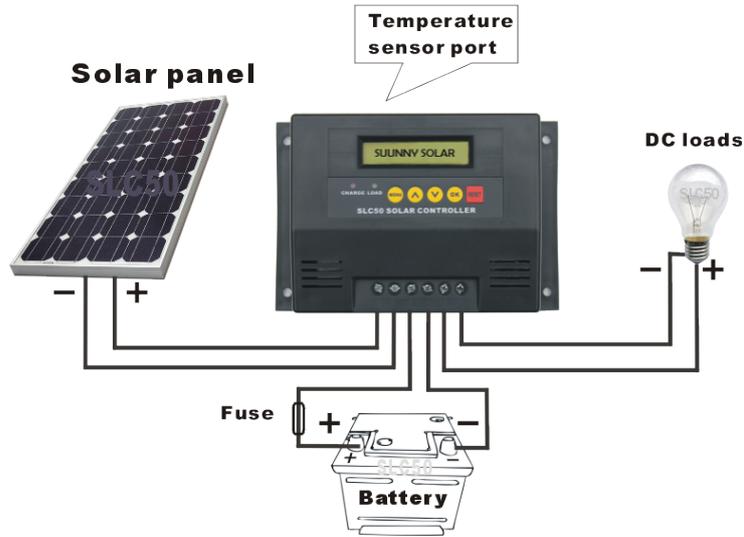# SLC50 (30A, 40A, 50A) Solar regulator

A. Features

CPU controlled SLC50 (30A, 40A, 50A) solar charge controller is able to adjust the charge current and decide if to supply the loads electricity according to the voltage of battery. The product also has following features:

1. Generally keep the battery on full voltage condition.
2. Prevent the battery from over-charging.
3. Prevent the battery from over-discharging.
4. Prevent supplying electricity from the battery to solar panels during nights.
5. Reverse Polarity Protection for Battery
6. Reverse Polarity Protection for Solar panels
7. When the current of load exceeds the rated one of controller, the controller will activate the protection mode and lock up, the screen shows "Overload".
8. When short circuit happens, the Controller will activate the protection mode and lock up, the screen show "Short circuit".
9. When the battery's voltage is low, the controller will automatically cut off loads from system and resume its working once the voltage of battery is back to normal.
10. Protection from the lightning strike
11. When Controller is normally working, the LCD Screen will show the voltage of battery, charging current and current of loads in turn in every 5 seconds.
12. Controller is always counting and saving the Charging Current Hours and Discharging Current Hours of the Battery.
13. When controller starts up, the controller will self-setup the Charging-off voltage, the Load-off voltage and the Load-on voltage according to the voltage of battery. These default parameters are setup as the standard environment temperature is 25℃.
14. According to varies system temperature, the controller will automatically compensate the temperature of the charging voltage.
15. Users could setup the Charge-on or off voltage, the load-off voltage, the Load-on voltage, etc, according to their requirements.
16. To prevent battery from over discharging, Controller will automatically control the lowest Load-off voltage of the load, which is no less than 10V (as per 12V battery) or 20V (as per 24V battery), or 42V (as per 48V battery). If voltage of the battery is less than 10V (or 20V,42V), the button "-" will stop working.
17. To recover the default parameters, please keep pressing the button "Menu" for over 5 seconds.

SLC50 SOLAR CONTROLLER

Model	SLC50-30A	SLC50-40A	SLC50-50A
Voltage（DC）	12V/24V, Automatically distinguish		
Max Load Current	=<30A	=<40A	=<50A
Full Charge Cut	13.7V/12V；×2/24V；×4/48V		
Resume Voltage	12.6V/12V；×2/24V；×4/48V		
Low Voltage Cut	10.5V/12V；×2/24V；×4/48V		
Temp Compensation	-3mv/C/cell, Default, or user set		
Zero Load Loses	=<45mA		
Min Wire Size	6 mm2		
Voltage Drop	<520mv	<550mv	<600mv

Notice: The figures of Full Charge Cut, Resume Voltage and Low Voltage Cut are either default set by this manufacturer or adjusted by well trained user.