

SC-20 MPPT ~ SC-40 MPPT

Solar Charger MPPT

SC-20 MPPT & SC-40 MPPT solar charger controller improves the tracking efficiency up to 99.9%.

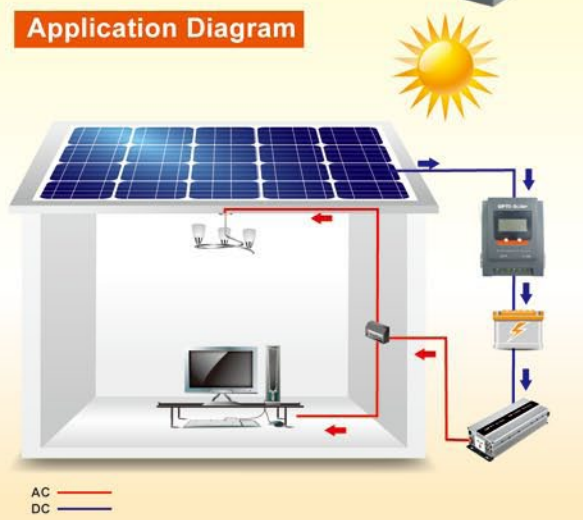
It provided RS485 interface that user can simply monitor the operation. BTS function is perfectly for temperature compensation.

Features

- Innovative MPPT technology, tracking efficiency 99.9%, conversion efficiency up to 90%
- Real-time display the operation data and working status of the controller in digital, graphic and textual forms by a large LCD
- AGM, Liquid and Gel battery for the selection
- Two navigation buttons, easy to implement various operation
- 12V/24V automatic recognition, temperature compensation, perfect EMC design
- Four stage charge way: MPPT, boost, equalization, float
- Full automatic electronic protect function



Application Diagram



Specifications

Model name	SC-20MPPT	SC-40MPPT
System voltage	12V/24V automatic recognition	24V/48V automatic recognition
Max solar current or load current	20A	40A(charging)/30(output)
Max MPPT efficiency	>99.9%	>99.9%
Max PV input power	260/520W	1000/2000W
Float voltage (25°C)	13.7V/27.4V	27.4V/54.8V
Boost voltage (25°C)	14.5V/29.0V	29.0V/58.0V
Equal voltage	14.8V/29.6V (Liquid,AGM)	29.6V/59.2V (Liquid,AGM)
Day/Night threshold	8.0V/16.0V	16.0V/32.0V
Load disconnect voltage	10.8~11.8V/21.6~23.6V	21.6~23.6V/43.2~47.2V
Load reconnect voltage	11.6~12.8V/23.2~25.6V	23.2~25.6V/46.4~51.2V
Battery type	Liquid, Gel	
Work mode	Standard, D2D(DUSK to Dawn), Street lamp, User mode	
Temperature compensation	-4.17 mV / K per cell (Boost and Equal charge) -3.33 mV / K per cell (Float charge)	
Max solar voltage	100V	150V
Max battery voltage	40V	65V
Dimension	189×182×64mm	189×255×89mm
Weight	1.3Kg	2.5Kg
Max power consumption	8mA(12V);12mA(24V)	8mA
Temp. Range during operation	- 20°C ~ + 55°C	
Storage temperature	- 25°C ~ + 80°C	
Ambient humidity	0%~100% RH	
Case protection	IP32	

Specifications are subject to change without notices.

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