

SC-05SM/SM-Z~SC-20SM/SM-Z

Solar Charger

For a variety of load applications, SC-SM and SC-SM-Z series offer you options.

SC-SM series with a PV sensor can output or not depending on PV power of levels, whereas SC-SM-Z series can continuously output whatever PV power exists or not.

Features

- 12V/24V automatic recognition
- Automatic temperature compensation
- Three-stage charge method
- Electronic protections
- IP68 enclosure

IP68
Dustproof & Waterproof



Application diagram



Specifications

Model	SC-05SM/SM-Z	SC-10SM/SM-Z	SC-15SM/SM-Z	SC-20SM/SM-Z
Nominal voltage	12 V / 24 V automatic recognition			
Max solar current or load current	5A	10A	15A	20A
Boost voltage	14.5 / 29 V (25°C)			
Equalization voltage	14.8 / 29.6 V (25°C)			
Float voltage	13.7 / 27.4 V (25°C)			
Battery type	Flooded, Sealed			
Max solar voltage	55V			
Max battery voltage	40V			
Cable length	120mm / 80mm			
Over voltage protection	15.5 V / 31.0 V			
Dimensions / Weight	85 × 70 × 20 mm / 200g		85 × 85 × 20mm / 210g	
Wire cross-section	SC-05SM/SM-Z: 1.5 mm ² ; SC-10SM/SM-Z: 2.5 mm ² ; SC-15/SM-Z: 4 mm ² SC-20SM/SM-Z: 4 mm ²			
Typical power consumption	Lower than 13mA / 15mA			
Working temperature	-40°C ~ 60°C			
Case protection	IP67			
Max altitude	4000 m			

Specifications are subject to change without notice.

SC-10SM-D ~ SC-20SM-D

Solar Charger

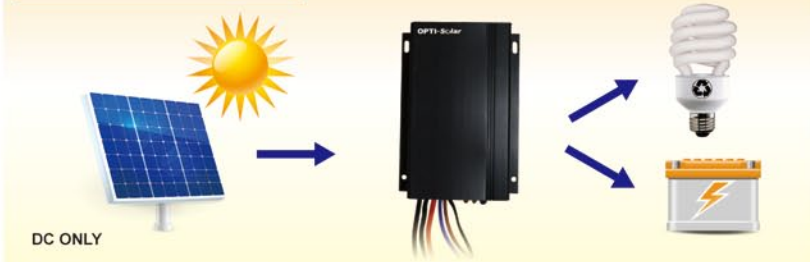
Three time periods, Dimming function:
0~100% of rated power adjustable

Features

- Output constant current
- Four stages PWM charge way: fast, boost, equal, float
- Many modes for solar street light system
- 12/24V automatic recognition
- Full automatic electronic protect function
- IP67, strong and durable aluminum case



Application diagram



Specifications

Model	SC-10SM-D	SC-20SM-D
Max solar current	10A	20A
System voltage	12V/24V automatic recognition	
Output power (W)	12V: 25~50W / 24V: 50~100W	12V: 30~60W / 24V: 60~120W
Output current (A)	12V: 0.6~3.5A / 24V: 0.9~4.0A	
Output voltage (V)	12V: 16~40V / 24V: 32~55V	
Precision of Constant current	±2%	
Representative efficiency	95%	
Dimming	0~100%	
Fast voltage	14.0V/28.0V (25°C)	
Boost voltage	14.5V/29.0V(25°C)	
Equalization voltage	14.8V/29.6V (25°C) (Liquid)	
Float voltage	13.7V/27.4V (25°C)	
Load disconnect voltage	10.8~11.8V/21.6~23.6V; SOC1~5 (Programmable)	
Load reconnect voltage	12.5V/25.0V	
Over voltage protection	15.5V/ 31.0V	
Day/Night threshold	3.0~8.0V/6.0~16.0V (Programmable)	
Battery type	Liquid / Gel	
Max solar voltage	55V	
Max battery voltage	40V	
Temperature Compensation	-4.17mV/K per cell (Boost / Equalization); -3.33mV/K per cell (Float)	
Working time during night	Time1: 0~14 Hours / Time2: 0~14 Hours / Time3: 0~15 Hours (Programmable)	
Dimensions /Weight	114x85x25.1mm / 360g	
Wire size	2.5mm ²	4mm ²
Typical power consumption	10mA	
Ambient temp.	-40°C ~ +60 °C	
Case protection	IP67	
Max altitude	4000m	

Specifications are subject to change without notice.

SC-30MAX ~ SC-60MAX

Solar Charge Controller

Brand new SC MAX series with state-of-the-art technology bring you unprecedented experience in solar power utilization.

Features

- LCD display for status and settings
- One-year data memory
- 12V/24V automatic recognition
- Automatic temperature compensation
- Multiple battery choices
- Four-stage charge method
- Electronic protections



Specifications

Model	SC-30MAX 48VDC	SC-30MAX	SC-40MAX	SC-50MAX	SC-60MAX
Nominal voltage	48V	12V / 24V automatic recognition			
Max solar current or load current	30A	30A	40A	50A	60A
Max solar voltage	100V	55V			
Max battery voltage	64V	40V			
Dimensions / Weight	127 × 189 × 47 mm / 550g	127 × 189 × 47 mm / 550g		127 × 164 × 47 mm / 690g	
Max. wire size	25 mm ²			50 mm ²	
Typical power consumption	7 mA	13.8 mA		15 mA	
Working temperature	-10°C ~ 60°C				
Storage temperature	-25°C ~ 80°C				
Relative humidity	10%~90% Non-condensation				
Case protection	IP32				

Specifications are subject to change without notice.

SC-3KW MPPT

Solar Charger MPPT

Features

- Intelligent Maximum Power Point Tracking technology increases efficiency 25%~30%
- Compatible for PV systems in 12V, 24V or 48V
- Three-stage charging optimizes battery performance
- Maximum charging current up to 60A
- Maximum efficiency up to 98%
- Battery temperature sensor (BTS) automatically provides temperature compensation
- Automatic battery voltage detection
- Support wide range of lead-acid batteries including wet, AGM and gel batteries
- Integrated intelligent slot compatible with SNMP/MODBUS communication



Specifications

MODEL	SC-3KW MPPT		
PV INPUT			
MPPT Range	60VDC~115VDC		
Maximum PV Array Open Circuit Voltage	145VDC		
Maximum PV Array Power	800W	1600W	3200W
Maximum Input Current	50A		
BATTERY			
Nominal Battery Voltage	12V	24V	48V
Connected Battery Type	Sealed lead acid, AGM or Gel		
Maximum Charge Current	60A		
Maximum Efficiency	98%		
Charging Method	Three stages: bulk, absorption, floating		
PHYSICAL			
Dimension (D × W × H)	315 × 165 × 128mm		
Net Weight	4.5kgs		
Type of Mechanical Protection	IP 31		
COMMUNICATION			
Humidity	5 ~ 95% RH(No condensing)		
Operating Temperature	0°C to 55°C		
Storage Temperature	-15°C to 60°C		

Specifications are subject to change without notice.