

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

IP67
Dustproof & Waterproof



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.

OPTI-Solar Asia:
Tel: +886-2-2246-7272
Fax: +886-2-2246-7312
info@opti-solar.com

OPTI-Solar USA:
Tel: +1-909-869-5700
Fax: +1-909-869-5730
info@opti-solar.com

OPTI-Solar Middle East:
Tel: +9714-8819-838
Fax: +9714-8819-938
info@opti-solar.com

OPTI-Solar Europe B.V.:
Tel: +31-40-2628057
Fax: +31-402546006
info@opti-solar.com