



samlexsolar®

510W



SunCharger Battery Maintainer

Model
SC-05
4.8 Watts
SC-10
9.6 Watts

Design Features

- Maximum efficiency
- Prevents back flow of current from the battery to the panel
- No need for additional Charge Controller
- Semi-flexible panel construction
- Rugged, weather-proof design
- 10ft cable
- 1ft cable with 12V power plug
- 1ft cable with ring terminals for battery

2 YEAR LIMITED WARRANTY

MODEL NO.	SC-05	SC-10
TYPE OF CELLS	Monocrystalline	Monocrystalline
NO. OF CELLS	24	24
CELL SIZE	78.0 x 14.8 mm	156.0 x 14.8 mm
NOMINAL RATED POWER	5W \pm 3%	10W \pm 3%
OPEN CIRCUIT VOLTAGE, V_{oc}	15.3 VDC	15.3 VDC
MAXIMUM POWER VOLTAGE, V_{MP}	12.7 VDC	12.7 VDC
SHORT CIRCUIT CURRENT, I_{sc}	0.42A	0.85A
MAXIMUM POWER CURRENT, I_{MP}	0.39A	0.79A
CELL CONVERSION EFFICIENCY	18.43%	18.43%
MODULE CONVERSION EFFICIENCY	8.60%	9.74%
MAXIMUM SYSTEM VOLTAGE	600 VDC	600 VDC
VOLTAGE TEMPERATURE COEFFICIENT	-0.29% / °C	-0.29% / °C
CURRENT TEMPERATURE COEFFICIENT	+0.05% / °C	+0.05% / °C
POWER TEMPERATURE COEFFICIENT	-0.39% / °C	-0.39% / °C
BLOCKING DIODE	30V, 1A, $V_f = 0.55V$	30V, 1A, $V_f = 0.55V$
CONNECTING CABLE	<ul style="list-style-type: none"> • 10 ft, AWG #18, 105°C, 300V • 2-pin SAE Connector (Bare bullet is Negative) 	
OPERATING TEMPERATURE	-40°C to +85°C / -40°F to +185°F	-40°C to +85°C / -40°F to +185°F
DIMENSIONS (WIDTH X HEIGHT X THICKNESS)	204 x 285 x 13.2 mm ; 8.03 x 11.22 x 0.52 in	360 x 285 x 13.2 mm ; 14.11 x 11.22 x 0.52 in
WEIGHTS	0.44 Kg / 0.8 lb.	0.55 Kg / 1.2 lb.
ACCESSORIES SUPPLIED	<ol style="list-style-type: none"> 1. Adapter Cable Set for SAE to 12V Accessory Plug <ul style="list-style-type: none"> • 1 ft, AWG#18 cable • Mating 2-Pin SAE Connector (Bare bullet is Positive) for solar panel end and 12V Accessory Plug on the battery end • Fuse rating of fuse in the tip of the 12V Accessory Plug: 10A; 250V; 6.3 x 30 mm 2. Adapter Cable Set for SAE to Ring Terminals <ul style="list-style-type: none"> • 1 ft, AWG#18 cable • Mating 2-Pin SAE Connector (Bare bullet is Positive) for solar panel end and 2 Ring Terminals (for 5/16" stud) for battery end • Fuse Holder & Fuse near battery end: Fuse - Mini Blade, 32V/10A 	

NOTES: 1. Specifications are at Standard Test Conditions (STC):

- Irradiance 1000W
- Module Temperature +25°C
- AM 1.5

2. Specifications are subject to change without notice.

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