



**samlexsolar®**

## 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"> <li>• 10 ft, AWG #18, 105°C, 300V</li> <li>• 2-pin SAE Connector (Bare bullet is Negative)</li> </ul>	
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"> <li>1. Adapter Cable Set for SAE to 12V Accessory Plug <ul style="list-style-type: none"> <li>• 1 ft, AWG#18 cable</li> <li>• Mating 2-Pin SAE Connector (Bare bullet is Positive) for solar panel end and 12V Accessory Plug on the battery end</li> <li>• Fuse rating of fuse in the tip of the 12V Accessory Plug: 10A; 250V; 6.3 x 30 mm</li> </ul> </li> <li>2. Adapter Cable Set for SAE to Ring Terminals <ul style="list-style-type: none"> <li>• 1 ft, AWG#18 cable</li> <li>• Mating 2-Pin SAE Connector (Bare bullet is Positive) for solar panel end and 2 Ring Terminals (for 5/16" stud) for battery end</li> <li>• Fuse Holder &amp; Fuse near battery end: Fuse - Mini Blade, 32V/10A</li> </ul> </li> </ol>	

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.

12023-SC-05-10-0618-R1