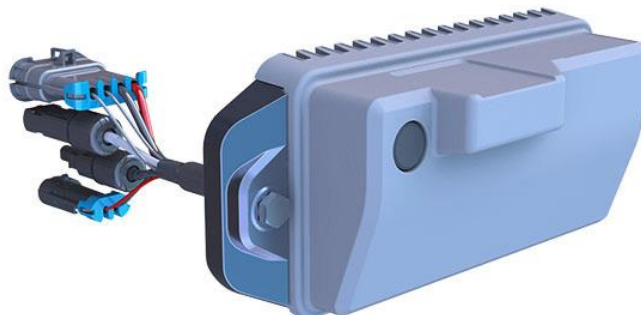


EverGen™ EMS Solar Lighting Controller / LED Driver

Programmed or custom run modes include:

- ▶ Hours after Dusk: 03, 05, 07, 09, or All Night
- ▶ Dimming Percentage: None, 30%
- ▶ Hours Before Dawn: 02, or All Nighty



Features

- ▶ Bluetooth and App for local configuration and testing
- ▶ Satellite modem for remote monitoring with Insight Remote Monitoring Platform Subscription
- ▶ Solar panel and battery overvoltage protection
- ▶ LED short circuit protection and unconnected LED protection
- ▶ Internal PV disconnect (no external diodes required)
- ▶ Reverse battery polarity protection
- ▶ Self calibrating load, timing, and charging circuitry

Benefits

- ▶ Flexible operating modes (dusk-to-dawn, split night, split night with dimming)
- ▶ Fully tested at the Sol factory before installation and shipment to ensure reliable operation and trouble-free startup
- ▶ Programmed by Sol based on your project requirements eliminating confusing switch and knob setting
- ▶ Bluetooth and app for simple and secure setup
- ▶ Integrated MPPT charging and LED driving system reduces system failures, overall system complexity, and cost
- ▶ Integrated surge protection and noise reduction
- ▶ Keyed connectors for simple and reliable assembly
- ▶ Temperature-compensated and MPPT-controlled battery charging to maximize battery life and energy collection
- ▶ High-temperature charge compensation to ensure component longevity
- ▶ Ruggedized solid-state design ensures long life and no maintenance
- ▶ Memory averaging to ensure accurate turn-on and turn-off of lights to prevent false responses due to weather variations
- ▶ Ten-year limited warranty

EverGen™ EMS Solar Lighting Controller / LED Driver

ELECTRICAL

Operating Voltage	12/24 VDC
Operating Current	25A max
LED Drive Current	3.5A max. 100W
Lamp Drive Voltage	65 VDC max.
PV Voltage Input	55 VDC max.
Low Voltage Disconnect (LVD)	11.6 / 23.2 VDC
Low Voltage Reconnect (LVR)	12.1 / 24.2 VDC

CHARGING

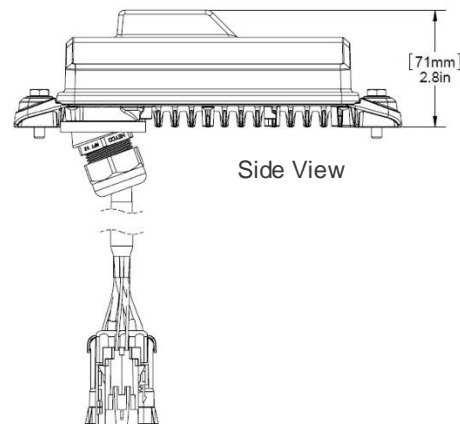
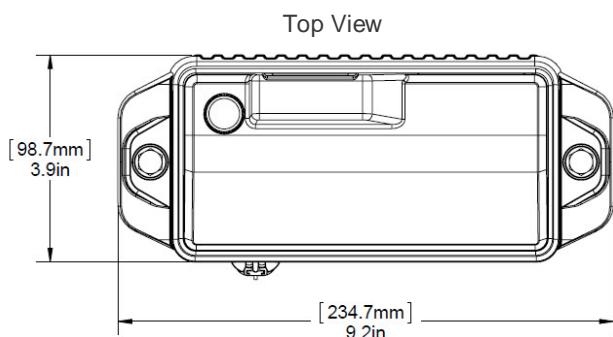
Self-consumption	< 5 mA
Charging Method	Maximum Power Point Tracking (MPPT)
Battery Fuse, External	30A max.

COMMUNICATION

Local Control	Bluetooth and app
Remote Monitoring	Satellite modem to Insight remote monitoring platform

PHYSICAL

Operating Temperature	-40 to +60 °C (-40 to +140 °F)
Humidity	100% Condensing
Packaging	Aluminum heatsink, polycarbonate cover, gasket and vent, IP68
Weight	0.74 kg (26 oz.)
Size (L x W x H)	234.7 x 98.7 x 71.0 mm (9.2 x 3.9 x 2.8 in)



Specifications subject to local environmental conditions.
Specifications may be subject to change.
US and International patents apply. Other patents pending.
"Sol" logo is a trademark of Sunna Design

All Sol products are manufactured in facilities certified to ISO quality standards.