

SunSaver MPPT™ Controller

15A at 12V or 24V



The SunSaver MPPT with Morningstar's patented TrakStar™ technology is an advanced maximum power point tracking controller for off-grid solar systems up to 400Wp. (SS-MPPT-15L)

- **Power Boost** – Maximum power point tracking provides an increase of amps from the solar array into the battery.
- **Use of High Voltage Modules** – In addition to 12V crystalline modules, enables the use of high voltage and thin film modules for off-grid battery charging.
- **Converts 36V or 24V Arrays** – Provides a means to use up to a 36V PV array to charge either a 24V or 12V battery.
- **Automatic Lighting Control** – Includes up to four programmable timer sequences for PV lighting applications using Morningstar's MS View Software.
- **Certifications**
 - CE, RoHS and REACH Compliant
 - UL 1741 / CSA C22.2 No. 107.1-01 Recognized
 - FCC Title 47 (CFR), Part 15 Subpart B for Class B Device
 - Manufactured in a Certified ISO 9001 Facility



SunSaver MPPT	SS-MPPT-15L
Maximum Battery Current	15A
Nominal Solar Input	
12V	200Wp
24V	400Wp
Maximum Open Circuit Voltage	75V
System Voltage	12/24 Vdc



AMBIENT OPERATING TEMPERATURE	-40 °C to +60 °C
TERMINAL	16 mm ² / 6 AWG
WEIGHT	0.7 kg / 1.6 lbs.
DIMENSIONS	20.3 x 8.9 x 7.4 cm 8.0 x 3.5 x 2.9 in
WARRANTY	5 years



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Features & Benefits



- **Maximizes Energy Harvest** – 97.5% peak efficiency
- **Compact and Cost Effective Design**
 - Smaller mechanical design; engineered to be more easily installed in industrial equipment enclosures.
 - Affordable solution for smaller PV systems of up to 400Wp.
 - The total PV system's costs may be reduced further by down-sizing the PV array, using on-grid or thin-film modules or decreasing cable sizes.
 - DIN rail mountable with optional custom clips.
- **Equipped with Load Control**
 - Automatically disconnects loads when the battery has been discharged to a low state-of-charge. Loads are reconnected again when the battery is sufficiently recharged.
 - Handles inductive loads without problems.
- **Delivers the Industry's Highest Reliability**
 - Epoxy encapsulation and conformal coating protect the SS-MPPT against dust and high humidity.
 - Efficient electronics and a conservative thermal design allow the controller to operate reliably at high temperatures.
 - Comes standard with a five year warranty and has an estimated 15 year operating life.
- **Fully Adjustable** – Four setting switches provide the user with a choice of several digital presets. Custom settings are enabled by connection to a personal computer and using Morningstar's MS View PC software.
- **Extensive Electronic Protections** – Fully protected against reverse polarity, short circuit, overcurrent, lightning and transient surges, high temperature and reverse current at night.
- **Optimizes PV System Reliability and Increases Battery Life**
 - Delivers longer battery life, using TrakStar MPPT tracking and 4-stage charging: bulk, absorption, float and optional equalization.
 - Includes temperature compensation at the controller or at the battery when using the optional remote temperature sensor.
- **Self Diagnostics and System Information**
 - Status LED indicates charging status and any existing solar input error conditions.
 - Three battery state-of-charge LEDs indicate the level of charge on the battery and the load status.
 - Use of the optional meter will provide additional digital and pictorial system data.
 - Includes 30 days of data logging and records key operating parameters of the PV system. The data may be read through the optional Remote Meter or via connection to a personal computer.

