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



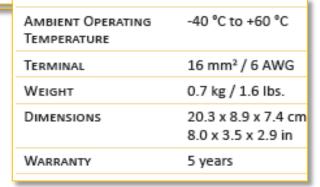












SunSaver MPPT™ Controller



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-ofcharge. 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.











