



Morningstar's **SunSaver** is the world's leading small solar controller for both professional and consumer applications.

SunSaver's technology provides:

- Exceptional Reliability
- PWM Battery Charging
- Consistent High Quality

The SunSaver's advanced design delivers outstanding performance and value. The SunSaver's low cost is made possible by Morningstar's unique approach to design and manufacturing:

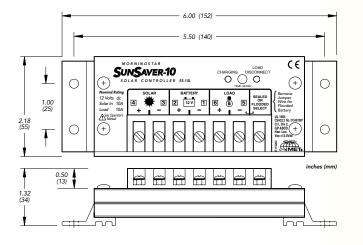
- Automated production
- ISO 9002 quality programs
- Latest power electronic technologies
- Latest control and logic technologies
- High volume manufacturing

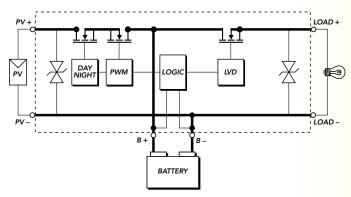
Features:

- Eight versions available (see back)
 12 and 24 volts
 - 6, 10 and 20 amps
- 100% solid state
- Series design (not shunt)
- True 0 to 100% PWM duty cycle
- Setpoint accuracy to 35 mV
- Rated for 25% overloads
- Fully encapsulated in epoxy potting
- Marine rated terminals/anodized case
- Temperature compensation
- Sealed/Flooded battery select
- No need to derate
- Parallel for 40 amps or more
- Green charging/Red LVD indicators
- Approved for use in hazardous locations Class 1, Division 2, Groups A, B, C, D

SunSaver Model Selection Chart

| MODEL NUMBER | SOL. | AR RATING (A 10 | mps) 20 0 | LOAD RATING (A | Amps) 20 | LVD | 12V | 24V |
|-----------------|------|--------------------|--------------|----------------|-------------|-----|-----|-----|
| • SS-6 | | | | | | | | |
| • SS-6L | | | | | | | | |
| • SS-10 | | | | | | | | |
| • SS-10L | | | | | | | | |
| • SS-10-24V | | | | | | | | |
| • SS-10L-24V | | | | | | | | |
| • SS-20L | | | | | | | | |
| • SS-20L-24V | | | | | | | | |





Mechanical Specifications

Wire size #10 AWG (5.2 mm²)
Anodized aluminum case
Marine rated terminals
Epoxy encapsulated
Weight is 8 oz (0.23 kg)

Electrical Specifications

| | 12 Volt | 24 Volt | | |
|----------------------|--------------|---------|--|--|
| Rated Solar Input | 6.5/10/20 A | | | |
| Rated Load | 6/10/20 A | | | |
| 25% Current Overload | 5 min. | 5 min. | | |
| Regulation Voltage: | | | | |
| Sealed Battery | 14.1 V | 28.2 V | | |
| Flooded Battery | 14.4 V | 28.8 V | | |
| Load Disconnect | 11.5 V | 23.0 V | | |
| LVD Reconnect | 12.6 V | 25.2 V | | |
| Temp. Comp. (mV/°C) | -28 | -56 | | |
| Self-consumption | 6 to 10 mA | | | |
| Operating Temp. | −40 to +85°C | | | |

WARRANTY: Five year warranty period. Contact Morningstar or your authorized distributor for complete terms.

AUTHORIZED MORNINGSTAR DISTRIBUTOR:



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