



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:

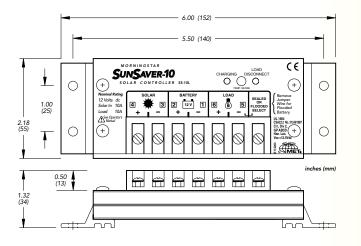
- Eight versions available (see back)
  12 and 24 volts
  6, 10 and 20 amps
- 100% solid state
- Series design (not shunt)
- True 0 to 100% PWM duty cycle
- Setpoint accuracy to 35 mV
- Rated for 25% overloads
- Fully encapsulated in epoxy potting
- Marine rated terminals/anodized case
- Temperature 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

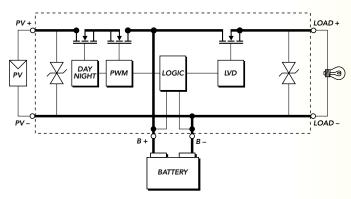


## TECHNICAL SPECIFICATIONS

#### 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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PRINTED IN USA 204E-R2-4/00

