



SOLAR CHARGE CONTROLLERS

SunSaver-10/20



The Morningstar SunSaver is the market's leading small solar charge controller for both professional and consumer applications.

Its technology provides an exceptional reliability, a PWM battery charging and a consistent high quality.

The SunSaver's advanced design delivers outstanding performance with an economical price.

Its low cost is made possible by Morningstar's unique approach to design and manufacturing:

- Quality programs ISO 9002.
- Latest power electronic technologies.
- Latest control and logic technologies.

FEATURES

- ✓ 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 resin.
- ✓ Marine rated terminals/anodised enclosure.
- ✓ Temperature compensation.
- ✓ Gelled/flooded battery selection.
- ✓ No additional compensation needed.
- ✓ Parallel connection for 40 A or more.
- ✓ Green charging and red LVD indicators.
- ✓ Approved for use in hazardous locations Class 1, Division 2, Groups A, B, C, D.

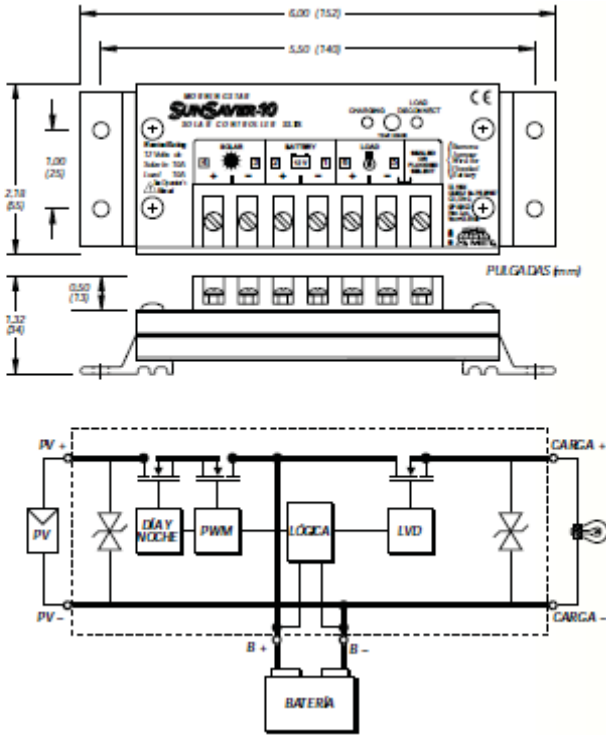


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Specifications subject to change without previous notice.



Mechanical specifications

Wire size:	5.2 mm ² (#10 AWG).
Enclosure material:	Anodised aluminium.
Terminal material:	Marine rated stainless steel.
Encapsulation material:	Epoxy resin.
Weight:	0.23 kg.

Electrical specifications

	12V	24V
Rated solar input	10/20 A	
Rated solar load	10/20 A	
25% current overload	5 min.	
Regulation voltage:	Gelled battery	28.2V
	Flooded battery	28.8V
Load disconnection	11.5V	23.0V
LVD reconnection	12.6V	25.2V
Temperature Compensation (mV/°C)	-28	-56
Self-consumption	From 6 to 10 mA	
Operating temperature	From -40° to +85°C	

MODEL	SOLAR RATING (A)			LOAD RATING (A)			LVD	12V	24V
	0	10	20	0	10	20			
.SS-10	█	█	█	█	█	█	█	█	█
.SS-10L	█	█	█	█	█	█	█	█	█
.SS-10-24V	█	█	█	█	█	█	█	█	█
.SS-10L-24V	█	█	█	█	█	█	█	█	█
.SS-20L	█	█	█	█	█	█	█	█	█
.SS-20L-24V	█	█	█	█	█	█	█	█	█



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