





Morningstar's **ProStar** is the world's leading mid-range solar controller for both professional and consumer applications. This second generation ProStar:

- Adds new features and protections using highly advanced technology
- Provides longer battery life and improved system performance
- Sets new standards for reliability and self-diagostics

Standard Features:

• Versions available: 15 or 30 amp 12 / 24 or 48 volt

negative or positive ground

- Estimated 15 year life
- PWM series battery charging (not shunt)
- 3-position battery select: gel, sealed or flooded
- Very accurate control and measurement
- Jumper to eliminate telecom noise
- Parallel for up to 300 amps
- Temperature compensation

- Tropicalization: conformal coating, stainlesssteel fasteners & anodized aluminum heat sink
- No switching or measurement in the grounded leg
- 100% solid state
- Very low voltage drops
- Current compensated low voltage disconnect (LVD)
- LED's indicate battery status and faults
- Capable of 25% overloads
- Remote battery voltage sense terminals

Electronic Protections:

- Short-circuit solar and load
- Overload solar and load
- Reverse polarity
- Reverse current at night
- High voltage disconnect
- High temperature disconnect
- Lightning and transient surge protection
- Loads protected from voltage spikes
- Automatic recovery with all protections

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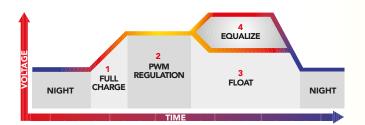
TECHNICAL SPECIFICATIONS

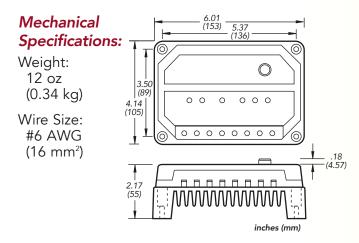
ProStar Options:

- Digital meter
 - Highly accurate voltage and current display
 - Low self-consumption (1 mA)
 - Includes manual disconnect button
 - Displays 5 different protection functions and disconnect conditions
 - Self-diagnostics (self-test) provides a comprehensive test of the ProStar
 - Displays 9 different controller status parameters, including temperature Displays detected faults
- Positive ground
- Remote temperature probe

Optimized Battery Charging:

The ProStar has 4 stages of charging to provide increased battery capacity and life.





ProStar Versions:

	PS-15	PS-30	PS15M-48V
Rated Solar Current	15A	30A	15A
Rated Load Current	15A	30A	15A
System Voltage	12/24V	12/24V	48V
Options: Digital Meter	yes	yes	standard
Positive Ground	no	yes	yes
Remote Temp. Probe	yes	yes	yes

Battery Voltage Setpoints*

	Gel	Sealed	Flooded
Regulation Voltage	14.0	14.15	14.4
Float	13.7	13.7	13.7
Equalization	n/a	14.35	14.9/15.1
Load Disconnect	11.4	11.4	11.4
Load Reconnect	12.6	12.6	12.6

Note: values are for 12V. Use 2X for 24V and 4X for 48V.

Electrical Specifications:

		12V	24V	48V	
Temp	o. Comp. (mV/°C)*	– 30mV	– 60mV	– 120mV	
Accu	racy	40mV	60mV	80mV	
Min.	voltage to operate	8V	8V	15V	
Self-	consumption	22mA	25mA	28mA	
LVD	current coefficient**	– 20mV	– 40mV	– 80mV	
Char	ge algorithm	PWM,	constant vo	ltage	
Ope	rating temperature	– 40°C to + 60°C			
Digit	al Display:				
C	Operating temperatur	re – 30°C to + 85°C			
V	oltage accuracy	0.5%			
C	Current accuracy	2.0%			
S	elf-consumption		1 mA		
* 25°	C reference				

** per amp of load

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

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