

## SunStar 12/24/48V- 45~60Amp



### Features

- Three - function controller to provide reliable solar
- Battery charging, load control or diversion regulation.
- Highest reliability - large heat sink and conservative design enables operating at full ratings to 45 °C.
- More information - internal and optional meter displays extensive system and controller information, automatic self-test and reset.
- Displays can be in multi - languages.
- Communications capability - RS-422 connects to a personal computer for custom settings, data logging and remote monitoring and control.
- Fully adjustable - DIP switch provides user with choice of 8 digital presets.
- Additional custom settings via RS-422.
- Extensive electronic protections - Fully protected against reverse polarity, short circuit, overcurrent, high temperature and overvoltage.
- Parallel connection (Max. 10 sets)

### Electrical Specifications

- Rated solar, load or diversion current:  
SunStar-45 45A  
SunStar-60 60A
- System Voltage 12-48V
- Accuracy 12/24/48V:  $\pm 0.2\% \pm 50\text{mV}$
- Min. voltage to operate 9V
- Max. solar voltage (Voc) 125V
- Max. operating voltage: 64V
- Self-consumption:  
Controller <30mA (Include LCD meter)

### Environmental Specifications

- Operating ambient temperature:  
Controller - 10°C to +45°C
- Storage temperature: -55° to +85°C
- Humidity: 100% (non-condensing)
- Tropicalization: Conformal coating on both sides of all printed circuit boards

### Electronic Protections

- Reverse polarity protection (any combination)
- Short-circuit protection
- Overcurrent protection
- Lightning and transient surge protection using 4500W transient voltage suppressors
- High temperature protection via automatic current reduction or complete shut down
- Prevents reverse current from battery at night

### Mechanical Specifications

- Dimensions: Height: 26.0cm/10.3 inch  
Width: 12.7cm/5.0 inch  
Depth: 7.5cm/2.95 inch
- Weight: 2 kg/4.4 lb
- Largest Wire: 35mm<sup>2</sup>/2 AWG
- Enclosure: Type 1, Indoor rated

**RICH**  
ELECTRIC