



Features

- Twelve versions available (12 / 24 / 48 volts 10~45 amps)
- 100% solid state
- True Oto 100% PWM duty cycle
- Set point accuracy to 50mV
- Rated for 150% overloads
- Fully encapsulated in epoxy potting
- Battery Temperature compensation
- 8 types of charging curve selection
- No need to derate
- Green charging LVD indicators
- Microcontroller digital accuracy
- 16 field adjustable lighting control options
- Special on/ off/ on functions
- Manual test capability
- LVD override protection
- Detects day and night using the PV array
- Suitable for all 12 / 24 / 48 Vdc lamps
- Includes battery charging circuit
- Optional LCD remote panel for 30 amps and 45 amps model

Specifications

Model No.	SCST-10LC	SCST-20LC	SCST-30LC	SCST-45LC
ELECTRICAL				
System Voltage Ratings	12, 24, 48 Vdc			
Current Ratings-Battery Charge Control	10A	20A	30A	45A
Current Ratings-Load Control/Lighting Control	10A	20A	30A	45A
Accuracy	12 / 24V: $\pm 0.1\% \pm 50$ mV 48V: $\pm 0.1\% \pm 100$ mV			
Min. Voltage to Operate	9 V			
Max. Solar Array Voc	140 V			
Max. Operating Voltage	68 V			
Total Current Consumption	While operating-25mA, at idle-3mA			
High Temp Shutdown	80°C disconnect solar 80°C disconnect load 70°C reconnect solar / load			
LVD	11.1V (Default setting) User select: 10.5V, 11.3V, 11.5V, 11.7V, 11.9V, 12.1V, 12.3V for 12V system Twice or four times of 12V is for 24V and 48V system			
LVR	12.6V (Default setting) User select: 12.0, 12.8V, 13.0V, 13.2V, 13.4, 13.6, 13.8 for 12V system Twice or four times of 12V is for 24V and 48V system			

Overload Capacity	150% of rated current for transient surge			
BATTERY CHARGING / Built-in BTS				
Charge Algorithm	PWM, constant voltage			
Temp Comp. Coefficient	− 5mV / °C / cell (25 °C ref)			
Temp Comp. Range	0 °C to +50 °C			
Temp Comp. Setpoints	PWM, float, equalize (with BTS)			
MECHANICAL				
Dimension (H x W x D) mm	65x168x35	65x236x35	135x172x46	
Weight (kgs)	0.3	0.4	0.7	
Power Terminals	10A Rated	20A Rated	30A Rated	45A Rated
ENVIRONMENTAL				
Ambient Temperature	− 40 to +45 °C			
Storage Temperature	− 55 to +85 °C			
Humidity	100% (NC)			
Enclosure	Indoor & vented			
OPTIONS				
Remote Panel	Optional LCD display for SW-30CL, SW-45CL only			

ISO 9001

