

# Solar Charge Controller - AP Series

*SCC-45AP-1248 / SCC-60AP-1248*

45A (12V/24V/48VDC ) / 60A (12V/24V/48VDC ) Solar Charge Controller



## *Character:*

- 🔧 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 7 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)

## *Description:*

- 🔧 The world's leading solar charge controller for both professional and consumer applications.
- 🔧 3 Stage pulse width modulated charge control.
- 🔧 Can be paralleled (Max. 10 sets) at will, according to your demand.

## Specifications:

Model No.	SCC-45AP-1248	SCC-60AP-1248
<b>Electrical Specifications</b>		
Rated solar, load or diversion current	45A	60A
System Voltage	12V 24V 48V	
Accuracy	12/24: $\leq 0.1\% \pm 50\text{mV}$ , 48V: $\leq 0.1\% \pm 100\text{mV}$	
Min. voltage to operate	9V	
Max. solar voltage (Voc)	140V	
Max. operating voltage	68V	
Self-consumption	While operating -25mA, at Idle -3mA Meter 7.5mA	
<b>Environmental Specifications</b>		
Operating ambient temperature	Controller -40°C to +45°C Storage temperature: -55°C to +85°C	
Humidity	100% (non-condensing)	
Tropicalization	Conformal coating on both sides of all printed circuit boards	
<b>Electronic Protections</b>		
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		
<b>Mechanical Specifications</b>		
Dimensions (L x W x H mm)	127 x 75 x 266	
Weight (by Kg/s)	2	
Power Terminals	45A Rated	60A Rated
Largest Wire	35mm <sup>2</sup> / 2AWG	
Enclosure	Type 1, indoor rated	