

12/24/48V- 30,45,60Amp

Stackable Solar Charger / DC Load Controller



Specifications

| MODEL | SS-30C | SS-45C | SS-60C |
|--|--|-----------------------|-----------------------|
| ELECTRICAL | | | |
| System voltage ratings | 12, 24, 48 Vdc | | |
| Current ratings-Battery Charge Control | 30A | 45A | 60A |
| Current ratings-Load Control | 30A | 45A | 60A |
| Current ratings-Diversion Charge Control | 30A Diversion load | 45A Diversion load | 60A Diversion load |
| Accuracy | 12 / 24V : $\leq 0.1\% \pm 50\text{ mV}$ 48V : $\leq 0.1\% \pm 100\text{ mV}$ | | |
| 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 | 90°C disconnect solar 90°C disconnect load / diversion load 70°C reconnect solar / load / diversion load | | |
| Transient surge protection | | | |
| pulse power rating | 4500 watts | | |
| response | < 5 nanosec | | |

Features

- Solid-state Pulse Width Modulated (PWM) charging process with four-stage control, temperature compensation, and manual or automatic equalization to maximizes system performance and increase battery life
- Three operating modes programmed: solar battery charging, DC diversion charge control or DC load control
- Electric overload and short circuit protection with automatic and manual reset capability increase the reliability of unattended systems by eliminating blown fuses and tripped circuit breakers
- LCD meter with easy to read mode/status messages built in for SS-30C SS-45C SS-60C
- An 8-position DIP switch to set up the controller for its intended use. All major functions can be set with DIP switches
- Rated for 12, 24, 48 volt systems, and 30, 45 or 60 amps current.
- Eight standard charging or Load programs selected with DIP switches
- LED indications and pushbutton functions
- Parallel connection for SS-30C SS-45C SS-60C (Max. 10 sets)
- Optional remote panel with LCD display for easy operation in distance

BATTERY CHARGING / 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 option) | | |
| MECHANICAL | | | |
| Dimensions (mm) | H: 65 / W: 236 / D: 35 | H: 266 / W: 127 / D: 75 | |
| Weight | 0.8 kgs | 1.5 kgs | |
| Power terminals | 30A Rated | 45A Rated | 60A Rated |
| BTS / Sense terminals | | | |
| wire sizes | 1.0 to 0.25 mm ² / 16 to 24 AWG | | |
| torque | 0.40 Nm / 3.5 in-lb | | |
| ENVIRONMENTAL | | | |
| Ambient temperature | - 40 to + 50°C | | |
| Storage temperature | - 55 to + 85°C | | |
| Humidity | 100% (NC) | | |
| Enclosure | Indoor & vented, (powder coated steel) | | |