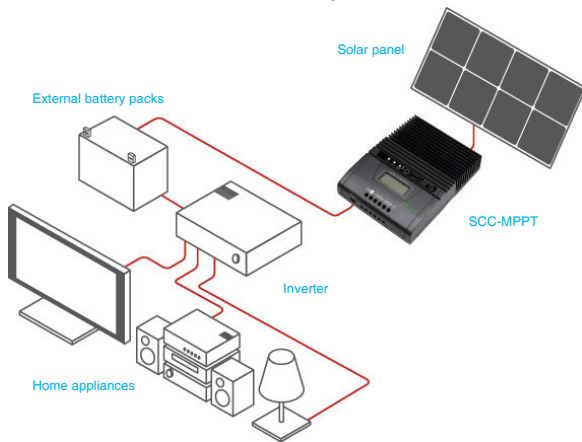


MPPT Solar Charge Controller



- Intelligent Maximum Power Point Tracking technology
- Built-in DSP controller with high performance
- Automatic battery voltage detection
- Three-stage charging optimizes battery performance
- Auto load-detection
- Multifunction LCD displays detailed information
- Reverse polarity protection for solar panel and battery
- Overcharge and overload protection
- IP 43 protection for outdoor and harsh environment
- Suitable for battery types: sealed lead acid, vented, Gel, and NiCd

Standalone Solar Power System:



Combined MPPT technology and DSP controller, SCC-MPPT will convert best voltage to charge battery based on varied temperature. Compared to traditional solar charge controller, it allows your solar panels to operate at their optimum power output voltage, providing higher efficiency up to 98% with lower power loss.

Integrated SCC-MPPT with inverter, solar panel, and external battery packs, it will become a standalone solar power system to generate green power for your home appliances. SCC-MPPT will convert solar power to charge external batteries, and then provide power to home appliances via inverter.

MPPT Solar Charge Controller Selection Guide

| MODEL | SCC-MPPT 300W | SCC-MPPT 600W |
|---|--|--------------------|
| INPUT | | |
| MPPT Range @ Operating Voltage | 15 V ~ 33 V @ 12 V | 30 V ~ 66 V @ 24 V |
| Maximum PV Array Open Circuit Voltage | 50 V | 75 V |
| Maximum PV Array Power | 300 W | 600 W |
| Maximum Current | 18 A | |
| OUTPUT | | |
| Nominal Battery Voltage | 12 V | 24 V |
| Connected Battery Type | Sealed lead acid, vented, Gel, NiCd battery | |
| Maximum Charging Current | 25 A | |
| Maximum Efficiency | 98% | |
| Standby Power Consumption | 1 W | 2 W |
| Charging Method | Three stages: bulk, absorption, and floating | |
| PROTECTION | | |
| Overload Protection | > 110% : audible alarm | |
| Overcharge Protection | Yes | |
| Polarity Reversal Protection @ Solar Cell & Battery | Yes | |
| INDICATORS | | |
| LCD Panel | LCD panel indicating solar power, load level, battery voltage/capacity, charging current, and fault conditions | |
| LED Display | Three indicators for solar, charging, and load status | |
| PHYSICAL | | |
| Dimension, D x W x H (mm) | 135 x 170 x 57.5 | 220 x 170 x 57.5 |
| Net Weight (Kgs) | 0.92 | 1.85 |
| Connector | Input/Output terminal block | |
| Type of Mechanical Protection | IP 43 | |
| ENVIRONMENT | | |
| Humidity | 0 ~ 100% RH (No condensing) | |
| Operating Temperature | -20°C to 55°C | |
| Storage Temperature | -40°C to 75°C | |
| Altitude | 0 ~ 3000 m | |

Product specifications are subject to change without further notice

MPPT Solar Charge Controller PWM Solar Charge Controller

- Intelligent Maximum Power Point Tracking technology increases efficiency 25%~30%
- Compatible for PV systems in 12V, 24V or 48V
- Three-stage charging optimizes battery performance
- Maximum charging current up to 60A
- Maximum efficiency up to 98%
- Battery temperature sensor (BTS) automatically provides temperature compensation
- Support wide range of lead-acid batteries including wet, AGM, and gel batteries
- Multifunction LCD displays detailed information



- 12VDC or 24VDC available
- Two-stage charging method
- Lightweight design



SCC-MPPT 3KW Specification

| MODEL | SCC-MPPT 3KW | | |
|---------------------------------------|---|-------|-------|
| PV INPUT | | | |
| MPPT Range | 60 VDC ~ 115 VDC | | |
| Maximum PV Array Open Circuit Voltage | 145VDC | | |
| Maximum PV Array Power | 800W | 1600W | 3200W |
| Maximum Input Current | 50 A | | |
| BATTERY | | | |
| Nominal Battery Voltage | 12 V | 24 V | 48 V |
| Connected Battery Type | Sealed lead acid, AGM or Gel | | |
| Maximum Charging Current | 60 A | | |
| Maximum Efficiency | 98% | | |
| Charging Method | Three stages: bulk, absorption and floating | | |
| PHYSICAL | | | |
| Dimension, D X W X H (mm) | 315 x 165 x 128 | | |
| Net Weight (kgs) | 4.5 | | |
| Type of Mechanical Protection | IP 31 | | |
| COMMUNICATION | | | |
| Standard | RS-232 and Dry contact | | |
| Optional | USB, Modbus and SNMP | | |
| ENVIRONMENT | | | |
| Humidity | 5 ~ 95% RH (No condensing) | | |
| Operating Temperature | 0°C to 55°C | | |
| Storage Temperature | -15°C to 60°C | | |

Product specifications are subject to change without further notice

PWM Solar Charge Controller Selection Guide

| MODEL | SCC-PWM-120W | SCC-PWM-240W |
|---------------------------------------|---|--------------|
| INPUT | | |
| Maximum PV Array Open Circuit Voltage | 25 V | 50 V |
| Maximum PV Array Power | 120 W | 240 W |
| Maximum Current | 10 A | |
| OUTPUT | | |
| Nominal Battery Voltage | 12 V | 24 V |
| Connected Battery Type | Sealed lead acid battery | |
| Maximum Charging Current | 10 A | |
| Ripple Voltage | < ± 1 V | |
| Maximum Efficiency | 99.0 % | |
| Charging Method | Two stage: bulk and floating 1 / floating 2 | |
| INDICATORS | | |
| LED Display | Green LED indicating charging status | |
| PHYSICAL | | |
| Dimension, D X W X H (mm) | 93 x 60 x 29 | |
| Net Weight | 160 g | |
| Connector | Input/Output terminal block | |
| Type of Mechanical Protection | IP 31 | |
| ENVIRONMENT | | |
| Operating Temperature | -20°C to 55°C | |
| Storage Temperature | -40°C to 75°C | |
| Altitude | 0 ~ 3000 m | |

Product specifications are subject to change without further notice