

Solar Charge Controllers

SCC-Basic

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



SCC-MCU

- Maximum Power Point Tracking technology
- Microprocessor controlled
- Automatic battery voltage detection
- Three-stage charging optimizes battery performance
- Adjustable battery charging voltage
- Indicators for solar charge status, load and fault status
- Provides battery temperature compensation protection (option)
- Provides overload and polarity reversal protection



Solar Charge Controllers Selection Guide

MODEL	SCC-Basic-50	SCC-Basic-100	SCC-MCU-100	SCC-MCU-200
INPUT				
MPPT Range @ Operating Voltage	-	-	15 V ~ 22 V @ 12 V	30 V ~ 44 V @ 24 V
Maximum PV Array Open Circuit Voltage	25 V	50 V	25 V	50 V
Maximum PV Array Power	50 W	100 W	100 W	200 W
Maximum Current	5 A		6 A	
OUTPUT				
Nominal Battery Voltage	12 V	24 V	12 V	24 V
Connected Battery Type	Sealed lead acid battery		Sealed lead acid battery	
Maximum Charging Current	5 A		10 A	
Ripple Voltage	< ± 1 V		< ± 1 V	
Maximum Efficiency	99.90%		97%	
Standby Power Consumption	0 W		0 W	
Charging Method	Two stages: bulk and floating 1/floating 2		Three stages: bulk, absorption, floating 1 / floating 2	
PROTECTION				
Overload Protection	N/A		> 110% shutdown and retry 10 times after 15 sec.	
Output Short Circuit Protection			Yes	
Polarity Reversal Protection @ Solar Cell			Yes	
Battery Temperature Compensation (Option)			-3.3 mV/°C/cell	
INDICATORS				
LED Display	Green LED indicating charging status		Five indicators for solar, charging, load, and fault status	
PHYSICAL				
Dimension, D x W x H (mm)	27.5 x 38 x 63		31 x 82 x 120	
Net Weight	50 g		300 g	
Connector	Input/Output terminal block		Input/Output terminal block	
Type of Mechanical Protection	IP 43		IP 43	
ENVIRONMENT				
Humidity	0 ~ 100% RH (No condensing)		0 ~ 100% RH (No condensing)	
Operating Temperature	-20°C to 55°C		-20°C to 55°C	
Storage Temperature	-40°C to 75°C		-40°C to 75°C	
Altitude	0 ~ 3000 m		0 ~ 3000 m	
COMPLIANCE				
Quality	ISO9001/ISO14001		ISO9001/ISO14001	
EMC	EN61000-6-1, EN651000-6-3		EN61000-6-1, EN651000-6-3	

* Product specifications are subject to change without further notice