



# SOLAR CHARGER CONTROLLER

## FEATURES

- Controller Based PWM Technology.
- Works Efficiently
- LED/LCD Indication.
- Over Charging Current Protection.
- Over Charging Voltage Protection.
- Battery Reverse Protection.
- Overload Protection.
- SPV Reverse Polarity Protection.
- Reverse Current Flow from Battery Solar Array Protection



General				
Model	SCC101224		SCC201224	
DC Voltage	12V	24V	12V	24V
Precise Control	Micro controller			
Operating Temperature	0-50 °C			
Storage Temperature	-20* to 70* C			
Battery Type	Tubular			
Battery Capacity	200 AH Max.			
Battery Charging Regulation Mode	PWM			
Operating Solar Input Voltage (Voc) Max.	22.5V	45V	22.5V	45V
Solar Module Size(Max)	160W*1	265W*1	160W*2(Parallel)	265*2 (Parallel)
Electrical				
Nominal Battery Voltage	12/24V DC (Auto Sensing)			
SPV Chg. Voltage Boost	14.5V	29V	15.5V	31V
Solar Current (max)	10A		20A	
Load Current Max.	10A		20A	
Charge Controller Efficiency	>95%			
Idle Consumption	<30mA			
Min. Solar Input Voltage(Voc) @ Startup	17V±2V	30V±2V	17V±2V	30V±2V
Load Condition				
USB Port	5V / 2A			
Battery Low Voltage Load Disconnect	10.8±0.2V	21.6±0.4V	10.8±0.2V	21.6±0.4V
Battery Low Voltage Load Recovery	12.6±0.2V	25.2±0.4V	12.6±0.2V	25.2±0.4V
Battery High Voltage Load Disconnect	15V±0.2V	30±0.4V	16V±0.2V	32V±0.4V
Battery High Voltage Load Recovery	14V±0.2V	28V±0.4V	15.5±0.2V	31±0.4V
LED Indication				
Solar ON	Green		NA	
Solar Over Load	Red		NA	
Batt. High	Green		NA	
Batt. Low	Red		NA	
Load ON	Green		NA	
Over Load	Red		NA	
Display Parameter				
Batt. Voltage, Batt. Current	NA		Yes	
Solar Status: Absent, Charging OFF, Overload	NA		Yes	
Load Current	NA		Yes	
Charger ON	NA		Yes	
Overload				
100%	Continues			
101%-120%	10 Min ON/1 Min OFF		30 Sec. ON/1 Min OFF	
121%-150%	30 Sec. ON/1 Min. OFF		1 Sec. ON/1 Min. OFF	
150%-200%	2 Sec. ON/1Min. OFF		250mSec. ON/1 Min. OFF	
>200%	250mSec. ON 1 Min. OFF			
Protections				
Battery High / Low	Available			
Battery Reverse	Available			
SPV Reverse	Available			
Reverse Current Flow from Battery to Solar Panel Array	Available			
Load short Circuit through DC Fuse	Available			
Physical				
Weight	130GM		300GM	
Dimension (LXWXH) MM	75x132x36 mm		100x161x50 mm	

Protect Solar Charge Controller from direct Sunlight & Water.

Panel open circuit voltage should not to do be more than specified voltage.

\*Specification are subject to change without prior notice due to constant improvement in design & technology.

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