

DOC REF NO.	RD/SCC/48V/50A/R.01	
PRODUCT FG CODE	SCD-SA-048-050-01	
Product Specification Range of Solar Charge Controller		
Model Name	SCC 48V/50A	
Battery	24V	48V
Battery Type	LA/Tubular/SMF	
Technology	Digital Processor Based High Efficiency Design	
Max. PV Current Rating	50AMP.	
Max. PV Voltage Rating	55V±1V	100V±2V
Max. Panel Install	1500Watt	3000Watt
Panel Recommended	250W	250W
Recommended Panel Configuration	6P	2S-6P
Battery Qty.12V 100-220AH	2	4
Float Charging Voltage	27.4V±0.2V	54.8V±0.2V
Boost Charging Voltage For Tubular And SMF Battery	29V±0.2V	58V±0.2V
Boost Charging Voltage For LA Battery	28V±0.2V	56V±0.2V
Bulk/ Absorption Voltage	29.6V±0.2V	59.2V±0.2V
solar Charge Controller To PV Power Connection Time	<15 Sec.	
Peak Efficiency	>96%	
Switching Element	Mosfet	
SCC Type	PWM (Pulse Width Modulation)	
DC Load Option	N/A	
DC Load Capacity	N/A	
PROTECTIONS		
Reverse PV Protection	Yes Provided	
Switching Element	Mosfet	
Reverse Current Flow to PV	Yes Provided	
High PV Voltage	Yes Provided	
Over Temperature	Yes Provided,If heat sink temperature goes above 100°C system will shut down	
DISPLAY PARAMETERS		
Display Type	LCD Display	
Display Messages	Welcome, Smarten Website Address,System Capacity	
SCC Fault/Protection Status	Reverse PV/High PV voltage/High Temp.	
SAFETY		
HV Test Input to Earth	Leakage current <5MAmp.when 1.5KV Applied for 1 Min.	
HV Test Output to Earth		
IR Test Input to Earth	<5MΩ between @500V DC	
IR Test Output to Earth		
ENVIRONMENT		
Operating Temperature	0°C To 40°C	
Storage Temperature	0°C To50°C	
Operating Relative Humidity	90% Non-Condensing	
Fixing	Wall Mounted	