

<b>DOC REF NO.</b>	<b>RD/SCC/120V/50A/R.01</b>
<b>PRODUCT FG CODE</b>	<b>SCD-SA-120-050-01</b>
<b>Product Specification Range of Solar Charge Controller</b>	
<b>Model Name</b>	<b>SCC 120V/50A</b>
Battery	120V
Battery Type	LA/Tubular/SMF
Technology	Digital Processor Based High Efficiency Design
Max. PV Current Rating	50AMP.
Max. PV Voltage Rating	265V±2V
Max. Panel Install	8000Watt
Panel Recommended	250W
Recommended Panel Configuration	5S-6P
Battery Qty.12V 100-220AH	10
Float Charging Voltage	137V±0.2V
Boost Charging Voltage For Tubular And SMF Battery	145V±0.2V
Boost Charging Voltage For LA Battery	140V±0.2V
Bulk/ Absorption Voltage	148V±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
<b>PROTECTIONS</b>	
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
<b>DISPLAY PARAMETERS</b>	
Display Type	LCD Display
Display Messages	Welcome, Smarten Website Address, System Capacity
SCC Fault/Protection Status	Reverse PV/High PV voltage/High Temp.
<b>SAFETY</b>	
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	
<b>ENVIRONMENT</b>	
Operating Temperature	0°C To 40°C
Storage Temperature	0°C To50°C
Operating Relative Humidity	90% Non-Condensing
Fixing	Wall Mounted