

<b>DOC REF NO.</b>	<b>RD/SCC/72V/50A/R.01</b>
<b>PRODUCT FG CODE</b>	<b>SCD-SA-072-050-01</b>

**Product Specification Range of Solar Charge Controller**

<b>Model Name</b>	<b>SCC 72V/50A</b>
Battery	72V
Battery Type	LA/Tubular/SMF
Technology	Digital Processor Based High Efficiency Design
Max. PV Current Rating	50AMP.
Max. PV Voltage Rating	132V±2V
Max. Panel Install	4500Watt
Panel Recommended	250W
Recommended Panel Configuration	3S-6P
Battery Qty.12V 100-220AH	6
Float Charging Voltage	82.2V±0.2V
Boost Charging Voltage For Tubular And SMF Battery	87V±0.2V
Boost Charging Voltage For LA Battery	84V±0.2V
Bulk/ Absorption Voltage	88.8V±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 To 50°C
Operating Relative Humidity	90% Non-Condensing
Fixing	Wall Mounted