

DOC REF NO.	RD/SCC/12V/25A/R.01
PRODUCT FG CODE	SCD-SA-012-025-01

Product Specification Range of Solar Charge Controller	
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Model Name	SCC 12V/25A
Battery	12V
Battery Type	LA/Tubular/SMF
Technology	Digital Processor Based High Efficiency Design
Max. PV Current Rating	25AMP.
Max. PV Voltage Rating	25V±1V
Max. Panel Install	600Watt
Panel Recommended	150W
Recommended Panel Configuration	4P
Battery Qty.12V 100-220AH	1
Float Charging Voltage	13.7V±0.2V
Boost Charging Voltage For Tubular And SMF Battery	14.5V±0.2V
Boost Charging Voltage For LA Battery	14V±0.2V
Bulk/ Absorption Voltage	14.8V±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	Yes Provided for 12V DC Load
DC Load Capacity	100W

PROTECTIONS	
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Reverse PV Protection	Yes
Switching Element	Mosfet
Reverse Current Flow to PV	Yes
High PV Voltage	Yes
Over Temperature	Yes

DISPLAY PARAMETERS	
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Display Type	LCD Display
Display Messages	Welcome, Smarten Website Address, System Capacity
SCC Fault/Protection Status	Reverse PV/DC Load Overload/High PV voltage /High Temp.

SAFETY	
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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	
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Operating Temperature	0°C To 40°C
Storage Temperature	0°C To 50°C
Operating Relative Humidity	90% Non-Condensing
Fixing	Wall Mounted