



DOC REF NO.	RD/SCC+/24V/50A/R.01
PRODUCT FG CODE	SCD-SR-024-050-01

Product Specification Range of Solar Charge Controller SAVIOR +

Battery	12V	24V
Battery Type	LA/Tubular/SMF	LA/Tubular/SMF
Technology	Digital Processor Based High Efficiency Design	Digital Processor Based High Efficiency Design
Max. PV Current Rating	50AMP.	
Max. PV Voltage Rating	25V±1V	55V±1V
Max. Panel Install	1000Watt	1500Watt
Panel Recommended	150W	250W
Recommended Panel Configuration	6P	6P
Float Charging Voltage	13.7V±0.2V	27.4V±0.3V
Boost Charging Voltage For Tubular And SMF Battery	14.5V±0.2V	29V±0.3V
Boost Charging Voltage For LA Battery	14V±0.2V	28V±0.3V
Bulk/ Absorption Voltage	14.8V±0.2V	29.6V±0.3V
MAINS DISCONNECT	if Battery reaches boost level then after <10 min. Mains Will be disconnect.	
solar Charge Controller To PV Power Connection Time	<15 Sec.	
MAINS CONNECT(DOD)	20%- if battery voltage is 12.5v	20%- if battery voltage is 25.0v
	20%- if battery voltage is 12.5v	30%- if battery voltage is 24.0v
	40%- if battery voltage is 11.5v	40%- if battery voltage is 23.0v
	50%- if battery voltage is 11.0v	50%- if battery voltage is 22.0v
Mains Connect If Solar Power Not Available	At any Stage of Battery Voltage	
D.O.D (Depth of Discharge)	mains will be connect when battery voltage reach at defined value of the battery voltage.	
Peak Efficiency	>94%	
SCC Type	PWM (Pulse Width Modulation)	
Switching Element	Mosfet	
Mains AC low cut	90VAC ± 10VAC	
Mains AC low cut recovery	110VAC ± 10VAC	
Mains AC high cut	295VAC ± 10VAC	
Mains AC high cut recovery	285VAC ± 10VAC	
Input Frequency Range	40Hz to 60Hz	
Voltage Output in Mains Mode	Same as input	

PROTECTIONS		
Reverse PV Protection	Yes	
Reverse Current Flow to PV	Yes	
High PV Voltage	Yes	
Over Temperature	Yes	
MCB	MCB ensures your UPS and connected loads stay protected from short circuits	

DISPLAY PARAMETERS		
Display Type	LCD Display	
Display Messages	Welcome, Smarten Website Address, System Capacity, Mains available, battery priority	
SCC Fault/Protection Status	Reverse PV/High PV voltage/High Temp.	

SAFETY		
HV Test Input to Earth		
HV Test Output to Earth	Leakage current <5MAmp.when 1.5KV Applied for 1 Min.	
IR Test Input to Earth		
IR Test Output to Earth	<5MΩ between @500V DC	

ENVIRONMENT		
Operating Temperature	0°C To 40°C	
Storage Temperature	0°C To 50°C	
Operating Relative Humidity	90% Non-Condensing	
Fixing	Wall Mounted	
Dimensions	310X310X180	