



<b>DOC REF NO.</b>	<b>RD/SCC+/48V/50A/R.01</b>	
<b>PRODUCT FG CODE</b>	<b>SCD-SR-048-050-01</b>	
<b>Product Specification Range of Solar Charge Controller SAVIOR +</b>		
Battery	<b>24V</b>	<b>48V</b>
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	55V±1V	100V±2V
Max. Panel Install	1500Watt	3000Watt
Panel Recommended	250W	250W
Recommended Panel Configuration	6P	2S-6P
Float Charging Voltage	27.4V±0.3V	54.8V±0.2V
Boost Charging Voltage For Tubular And SMF Battery	29V±0.3V	58V±0.2V
Boost Charging Voltage For LA Battery	28V±0.3V	56V±0.2V
Bulk/ Absorption Voltage	29.6V±0.3V	59.2V±0.2V
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 25.0v	20%- if battery voltage is 50.0v
	30%- if battery voltage is 24.0v	30%- if battery voltage is 48.0v
	40%- if battery voltage is 23.0v	40%- if battery voltage is 46.0v
	50%- if battery voltage is 22.0v	50%- if battery voltage is 44.0v
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	
<b>PROTECTIONS</b>		
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	
<b>DISPLAY PARAMETERS</b>		
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.	
<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		
IR Test Output to Earth		
<b>ENVIRONMENT</b>		
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	