

MPPT Solar Charge Controller SCF Series 30A/40A/50A/60A 12V/24V/36V/48V



Feature:

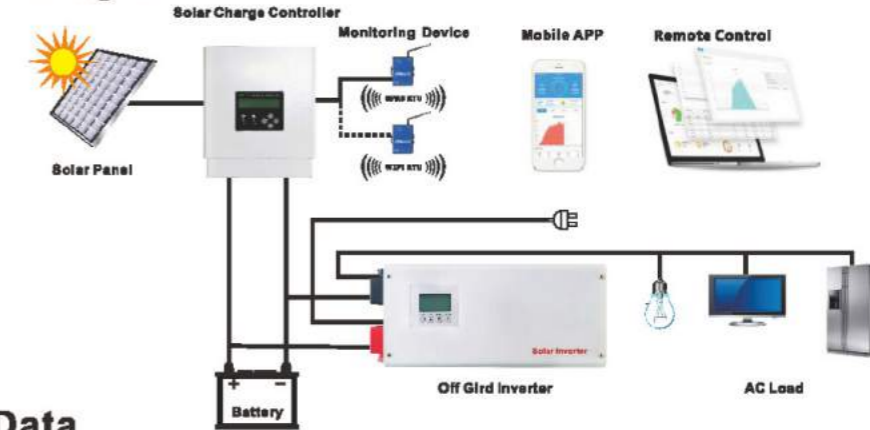
- 12V/24V/36V/48V Auto work, parallel design
- Multi-stage charging optimizes battery performance
- MPPT efficiency >99.5%, Peak conversion efficiency 97.5%
- Wide range Solar PV voltage input 18V~150Vdc
- Compatible with Gel, AGM, Flooded, Sealed lead acid and Lithium battery
- Multi-function LCD+LED display, system information intuitively
- Comprehensive protection
- Fan cooling design, cost-effective option
- Comfortable installation and commissioning
- Monitoring your system on line via RS485 communication



Application:



Application Diagram



Technical Data

Model	SCF-30A	SCF-40A	SCF-50A	SCF-60A
Solar System Voltage	12V/24V/36V/48V Auto work			
Electrical				
PV Operating Voltage	18~150Vdc@12V 35~150Vdc@24V 50~150Vdc@36V 65~150Vdc@48V			
Max. PV Input Power	12V 400W	12V 600W	12V 700W	12V 900W
	24V 800W	24V 1200W	24V 1400W	24V 1800W
	36V 1300W	36V 1700W	36V 2200W	36V 2600W
	48V 1700W	48V 2300W	48V 2900W	48V 3400W
Rated Output Current	30A	40A	50A	60A
Self Consumption	<2W			
Max. Conversion Efficiency	97.5%			
Protection	PV array short circuit, over charging, battery reverse polarity, output short circuit			
Battery Charging				
Battery Type	Sealed Gel AGM Flooded Lithium Battery			
Charge Algorithm	3 stage: Bulk, Absorption, Float, Equalize charging			
Bulk Charge Voltage	Sealed: 14.4V AGM 14.2V Gel: 14.2V Flooded: 14.6V User defined: 10-15V			
Float Charge Voltage	Sealed/Gel/AGM: 13.8V Flooded: 13.7V User defined: 10-15V			
Load Reconnect Voltage	12.5V			
Temperature Compensation	5mV/°C/2V with BTS			
Communication				
Communication Port	Rs485 with On line monitoring system			
Physical				
Net Weight	2kg		2.3kg	
Gross Weight	2.5kg		2.7kg	
Dimension(mm)	240*180*77			
Cooling	Fan cooling			
Enclosure	IP 20			
Environment				
Ambient Operating Temperature	-25°C~60°C			
Storage Temperature	-40°C~80°C			
Humidity	5%-95% non-condensing			
Warranty	Two years			

※Technical data for 12V system at 25°C, twice in 24V system rate, triple in 36V System rate and quadruple in 48V system rate.