

MPPT Solar Charge Controller SCH-50A/60A/70A/80A/90A/100A 12V/24V/36V/48V



Features

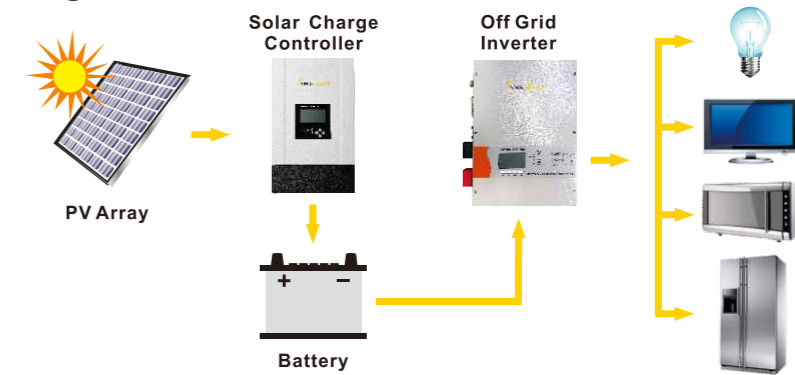
- 12V/24V/36V/48V Auto work, parallel design
- Multi-stage charging optimizes battery performance
- MPPT efficiency >99.5%, Peak conversion efficiency 98.5%
- Wide range Solar PV voltage input 18V~150Vdc
- Compatible with Gel, AGM, Flooded, Sealed lead acid and Lithium battery
- Multi-function LCD+LED display, system information intuitively
- Comprehensive protection
- Excellent heatsink cooling design, quiet operation
- Comfortable installation and commissioning
- Monitoring your system on line via RS485 communication



Application



Application Diagram



Technical Data

Model	SCH-50A	SCH-60A	SCH-70A	SCH-80A	SCH-90A	SCH-100A
Solar System Voltage	12V/24V/36V/48V Auto work					
Electrical						
PV Operating Voltage	18~150Vdc@12V 35~150Vdc@24V 50~150Vdc@36V 60~150Vdc@48V					
Max. PV Input Power	12V 700W	12V 900W	12V 1000W	12V 1200W	12V 1300W	12V 1400W
	24V 1400W	24V 1800W	24V 2000W	24V 2300W	24V 2600W	24V 2800W
	36V 2200W	36V 2600W	36V 3000W	36V 3300W	36V 3800W	36V 4200W
	48V 2900W	48V 3400W	48V 4000W	48V 4600W	48V 5000W	48V 5400W
Rated Output Current	50A	60A	70A	80A	90A	100A
Rated DC Load Current	60A					
Self Consumption	2W					
Max. Conversion Efficiency	98.5%					
Protection	PV array short circuit, over charging, battery reverse polarity, output short circuit					
Battery Charging						
Battery Type	Sealed Gel AGM Flooded Lithium					
Charge Algorithm	4 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					
Equalize Charge Voltage	Sealed 14.6V AGM:14.8V Flooded:14.9V					
Load Disconnect Voltage	10.5V~12V Adjustable					
Load reconnect voltage	12.5V					
Temperature Compensation	5mV/°C/2V with BTS					
Communication						
Communication Port	RS485(Standard) Ethernet RS232 Optional with On line monitoring system					
Physical						
Net Weight	6.5kg	6.5kg	7.8kg	7.8kg	9.0kg	9.0kg
Gross Weight	7.3kg	7.3kg	8.7kg	8.7kg	10kg	10kg
Dimension(mm)	310*230*110		370*230*110		405*230*110	
Cooling	Heatsink cooling					
Enclosure	IP 45					
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.