

MPPT Solar Charge Controller SCH-30/40A SCH-30/40A-H 12V/24V/36V/48V



Features

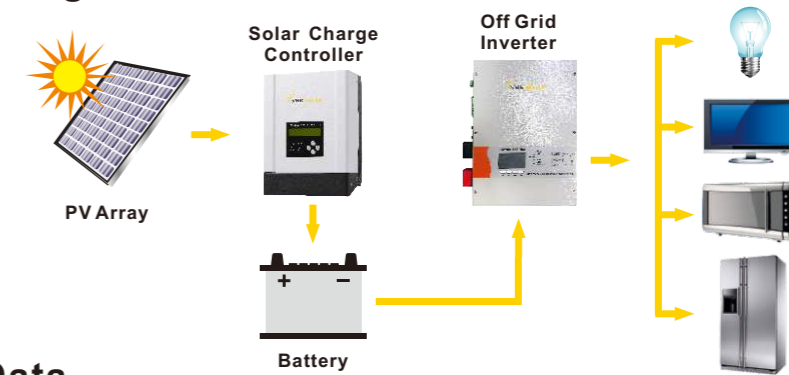
- 12V/24V/36V/48V Auto work, parallel design
- Multi-stage charging optimizes battery performance
- MPPT efficiency >99.5%, Peak conversion efficiency 97.5%
- Compatible with Gel, AGM, Flooded, Sealed lead acid and Lithium battery
- Multi-function LCD+LED display, system information intuitively
- Comprehensive 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-30A	SCH-40A	SCH-30A-H	SCH-40A-H
Solar System Voltage	12V/24V/36V/48V Auto work			
Electrical				
PV Operating Voltage	12V 18~100Vdc	12V 18~100Vdc	12V 18~150Vdc	12V 18~150Vdc
	24V 35~100Vdc	24V 35~100Vdc	24V 35~150Vdc	24V 35~150Vdc
	36V 50~100Vdc	36V 50~100Vdc	36V 50~150Vdc	36V 50~150Vdc
	48V 60~100Vdc	48V 60~100Vdc	48V 60~150Vdc	48V 60~150Vdc
Max. PV Input Power	12V 400W	12V 600W	12V 400W	12V 600W
	24V 800W	24V 1200W	24V 800W	24V 1200W
	36V 1300W	36V 1700W	36V 1300W	36V 1700W
	48V 1700W	48V 2300W	48V 1700W	48V 2300W
Rated Output Current	30A	40A	30A	40A
Rated DC Load Current	40A			
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			
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	3.3kg			
Gross Weight	4kg			
Dimension(mm)	220*170*90			
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.