

MPPT Solar Charge Controller  
SCH Eco Series  
30A/40A/50A 12V/24V



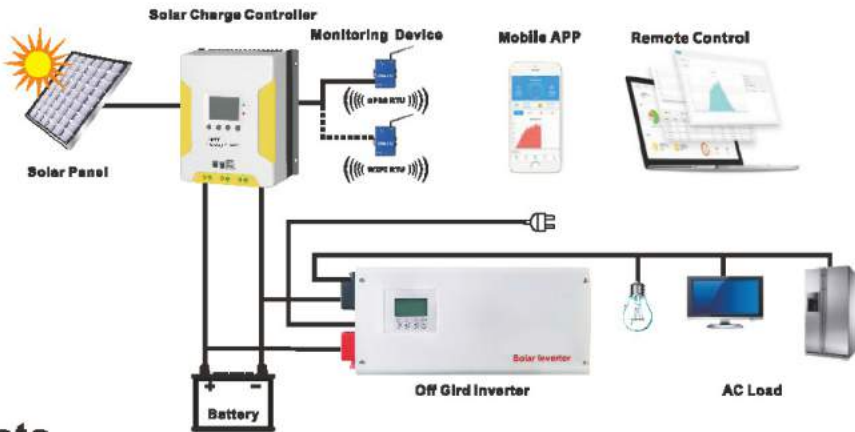
- Feature:**
- 12V/24V Auto work, parallel design
  - Multi-stage charging optimizes battery performance
  - MPPT efficiency >99.5%, Peak conversion efficiency 97.5%
  - Wide range Solar PV voltage input 18V~100Vdc
  - Compatible with Gel, AGM, Flooded, Sealed lead acid and Lithium battery
  - Multi-function LCD+LED display, system information intuitively
  - Comprehensive protection
  - Excellent heatsink cooling design, quiet operation
  - Comfortable installation and commissioning
  - Metal Case design, better air cooling performance



**Application:**



**Application Diagram**



**Technical Data**

Model	SCH Eco-30A	SCH Eco-40A	SCH Eco-50A
Solar System Voltage	12V/24V Auto work		
Electrical			
PV Operating Voltage	18~100Vdc@12V 35~100Vdc@24V		
Max. PV Input Power	12V 400W	12V 600W	12V 700W
	24V 800W	24V 1200W	24V 1400W
Rated Output Current	30A	40A	50A
Rated DC Load Current	30A	40A	50A
Self Consumption	<1W		
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 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 Disconnect Voltage	10.5V ~12V Adjustable		
Load reconnect voltage	12.5V		
Temperature Compensation	5mV/℃/2V with BTS		
Physical			
Net Weight	2.0kg		
Gross Weight	2.2kg		
Dimension(mm)	170*216*80		
Cooling	Heatsink cooling		
Enclosure	IP 45		
Environment			
Ambient operating temperature	-25℃ ~60℃		
Storage Temperature	-40℃ ~80℃		
Humidity	5%-95% non-condensing		
Warranty	Two years		

※Technical data for 12V system at 25℃, twice in 24V system rate.