

# MPPT SOLAR CHARGE CONTROLLER



MPPT Solar Charge Controller series. our MPPT solar controller has LCD display,solar MPPT controller LCD the first page display PV voltage,PV current,battery voltage,charging current.have both Touch-Screen buttons.PC Remote MPPT controllers .Besides over-charging,over-discharging,over-load,over-current and over-voltage, it also with protection of PV anti-reserve, Battery anti-reverse.Its conversion efficiency up to 99%.

Advantage:

- 1.LCD Screen replaced LED display,MPPT controller make operation easy and visible.
- 2.MPPT solar charger controller touch-screen buttons replaced traditional switches,make the controller better sealed to achieve better anti-dust and anti-splash,and also the touch screen buttons have much longer life span than traditional switches
- 3.MPPT solar charger controller PC Remote Controller available for 1 KM
- 4.MPPT solar charger controller use High Speed convert circuit for Inner Power Supply,make the most of the efficiency

5.MPPT controller PV Tracker efficiencies 99%

6.MPPT controller can adapt to Lead-acid,solar controller nickel-cadmium, nickel metal hydride and lithium-ion batteries

7.solar controller besides over-charging, over-discharging, MPPT controller over load,over-current and over voltage,solar controller also with protection of PV anti-reserve,solar controller battery anti-reverse short-circuit protection activated =8uS. It ensures the low failure rate of the controller

MODEL	SMK-SCH-30A	SMK-SCH-40A	SMK-SCH-50A	SMK-SCH-60A	SMK-SCH-70A	SMK-SCH-80A
Solar system voltage	12/24/48V Flexible					
Electrical						
PV operating voltage	17-100Vdc@12V 60-100Vdc@48V		34-100Vdc@24V		17-150Vdc@12V 34-150Vdc@24V 60-150Vdc@48V	
Max. PV open circuit voltage	100Vdc			150Vdc		
Max. PV input power	12V 400W	12V 600W	12V 700W	12V 800W	12V 1000W	12V 1200W
	24V 800W	24V 1200W	24V 1400W	24V 1700W	24V 2000W	24V 2300W
	48V 1700W	48V 2300W	48V 2800W	48V 3400W	48V 4000W	48V 4600W
Max. Charging current	30A	40A	50A	60A	70A	80A
Max. DC load current	40A			60A		
Self Consumption	3W					
Conversion efficiency	97.5%			98%		98.5%
Protection	Overload,short circuit,high voltage,high temperature protection					
Battery charging						
Battery type	Sealed AGM Gel Flooded					
Charging algorithm	4-stage: Bulk, Absorption, Float, Equalize					
Bulk charge voltage	Sealed:14.4V AGM Gel:14.2V Flooded:14.6V Custom:10-17V					
Float charge voltage	Sealed/Gel/AGM:13.7V Flooded:13.6V Custom:10-17V					
Equalize charge voltage	Sealed:14.6V AGM :14.8V Flooded:14.9V Custom:10-17V					
Low voltage reconnect voltage	10.2V					
Low voltage disconnect voltage	9V					
Temperature compensation	-5mV/°C/2V withBTS					
Communication						
Communication Port	Standard RS485 with On line monitor system		Standard RS485/232/Ethernet with On line monitor system		RS485/232/Ethernet with On line monitor system,GPRS optional	
Physical						
Net weight	3.3KG		5.6KG		7.2KG	
Gross weight	3.7KG		6.1KG		7.6KG	
Dimension	212*170*80mm		297*227*110mm		353*227*110mm	
Cooling	Heatsink cooling					
Enclosure	IP54					
Environment						
Ambient operating temperature	-25°C~60°C(Derating from 45°C)					
Storage temperature	-40°C~+80°C					
Humidity	100% non-condensing					
Warranty	Two Years					