

SSM-MPPT Solar Charge Controller

12V/24V: 20A - 40A

12V/24V/36V/48V: 30A - 160A



- 
 Automatic voltage recognition
- 
 LCD display
- 
 MPPT tracking charging

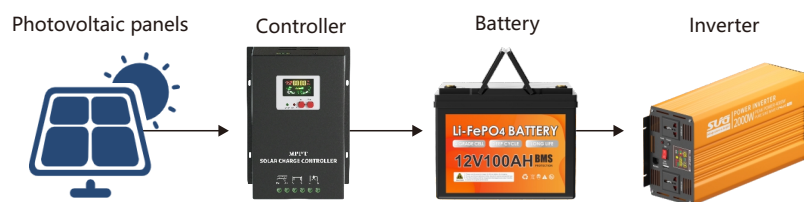
Product Introduction

The SSM controller is suitable for automatic control of charging and discharging processes in solar off grid systems (independent systems). The charging mode of the controller is divided into MPPT and DC-DC, and the discharge process of the battery is optimized to extend the battery's life and improve system performance. Its comprehensive electronic protection function can prevent users from damaging the controller due to installation errors and system failures.

Product features

- ① Automatic voltage recognition
- ② Lightning protection
- ③ Adopting large screen LCD display
- ④ Over charge, over discharge, overload, short circuit, and battery anti reverse protection
- ⑤ Adopting MPPT tracking mode to effectively improve charging efficiency

Product Connection Diagram



Product parameters

Model	SSM-20A	SSM-30A	SSM-40A	SSM-30A	SSM-40A
Maximum open circuit voltage of the battery board	<100V			<180V	
MPPT voltage range	13V-100V(12V);26V-100V(24V)			13V-120V(12V); 26V-140V(24V); 52V-160V(48V)	
Maximum input current	20A	30A	40A	30A	40A
Maximum output current	20A	30A	30A	30A	30A
maximum input power of solar energy is 12V	240W	360W	480W	360W	480W
maximum input power of solar energy is 24V	480W	720W	960W	720W	960W
maximum input power of solar energy is 48V	/	/	/	1440W	1920W
Adjustable battery type	Supports lead-acid, colloid, open end, and lithium batteries (with self set voltage)				
Charging mode	MPPT or DC/DC (adjustable)				
Maximum charging efficiency	MPPT mode: 96%				
Product size/ unit (mm)	186*148*64.5			172.8*249.7*111.1	
NW./unit (kg)	1.8			3.5	
Working temperature	-25°C~ +60°C				
Remote monitoring function	Rs485 optional				

Model	SSM-50A	SSM-60A	SSM-80A	SSM-100A	SSM-120A	SSM-160A
Maximum open circuit voltage of the battery board	<180V			<230V		
MPPT voltage range	13V-120V(12V); 26V-140V(24V); 52V-160V(48V)			80V-180V(12V/24V/36V);100V-230V(48V)		
Maximum input current	50A	60A	80A	100A	120A	160A
Maximum output current	30A	60A	60A	40A	40A	40A
maximum input power of solar energy is 12V	600W	720W	960W	1200W	1440W	1920W
maximum input power of solar energy is 24V	1200W	1440W	1920W	2400W	2880W	3840W
maximum input power of solar energy is 36V	/	/	/	3600W	4320W	5760W
maximum input power of solar energy is 48V	2400W	2880W	3840W	4800W	5760W	7680W
Adjustable battery type	Supports lead-acid, colloid, open end, and lithium batteries (with self set voltage)					
Charging mode	MPPT					
Maximum charging efficiency	MPPT mode: 96%					
Product size/unit (mm)	172.8*249.7*111.1	342.8*190 * 117		310*327*135	499*399*178	
NW./unit (kg)	1.8	5		6.5	10.7	
Working temperature	-25°C~ +60°C					
Remote monitoring function	Rs485 optional					