



Technical parameter

SON-MPPT-series

MPPT Solar controller	System/Voltage	SON-MPPT-10A	SON-MPPT-20A	SON-MPPT-30A	SON-MPPT-40A
charging mode	Maximum power point tracking automatically				
charging way	Three -phase:constant current ,constant voltage ,floating				
System type	DC12V/24V/48V	12V/24V	12V/24V	12V/24V/48V	12V/24V/48V
System identification of voltage	12v	DC9VDC15V			
	24v	DC18V-DC30V			
	48v	DC36V-DC60V			
Soft start time	12v/24v/48v	≤10s			
Response time to recover	12v/24v/48v	500us			
the machine efficiency	12v/24v/48v	≥96.5%, ≤99%			
Photovoltaic utilization	12v/24v/48v	≥99%			
The input features					
MPPT working voltage and scope	12V	DC18V-90V		DC18V-DC150V	
	24V	DC34V-90V		DC34V-DC150V	
	48V			DC65V-DC150V	
The input low voltage protection	12V	DC16V			
	24V	DC30V			
	48V	DC60V			
The input low pressure recovery points	12V	DC22V			
	24V	DC34V			
	48V	DC65V			
Maximum input voltage	12v/24v/48v	DC95V		DC160V	
Input overvoltage protection	12v/24v/48v	DC90V		DC150V	
input overvoltage recovery points	12v/24v/48v	DC88V		DC145V	
The largest solar panels power input	12V	140W	290W	430W	570W
	24V	290W	580W	860W	11300W
	48V			1720W	2270W
The charging characteristics					
Battery types to choose from (the default for gel gel battery)	12v/24v/48v	Sealed Lead- Acid Battery,Opzs Battery,gel battery,nickel-cadmium batteries(customized for other types of battery charging)			
constant pressure voltage	12v/24v/48v	Refer to the battery type charging voltage meter.			
float charging voltage	12v/24v/48v				
The overcharger protection voltage	12V	14.6V			
	24V	29.2V			
	48V	58.4V			
The output current rating	12v/24v/48v	10A	20A	30A	40A
current limiting protection	12v/24v/48v	12A	22A	33A	44A
The temperature coefficient of	12v/24v/48v	± 0.02%/°C			
Automatic temperature compensation	12v/24v/48v	14.2v-(maximum temperature-25°C)*0.3			
Grain output voltage peak-peak	12v/24v/48v	200mV			
The output voltage accuracy	12v/24v/48v	≤±1.5%			



FEATURES

1. Clock timing function
2. Regulatory mechanism of temperature compensation (Only available in 30A/40A/50A/60A)
3. Extreme Low Power Consumption
4. Built-in solar data monitoring interface(RS485) (Only available in 30A/40A/50A/60A)
5. LCD Display with backlight
6. Good heat dissipation effect with less noise
7. Light control mode, Time control mode
8. Reverse protection, short circuit protection
9. Designed for 12V/24V/48V solar power system
10. Hanging style design makes it convenient to install
11. Available in 10A/20A/30A/40A/50A/60A

How a solar system works?

