



# PWM solar charge controller



This is a new series of solar charge controller. It is equipped with explicit LED indicator or vivid LCD for you to choose.

The new design of graphic display informs the user of all important system data. While meeting functional needs, it also offers user-friendly installation and operation interfaces.

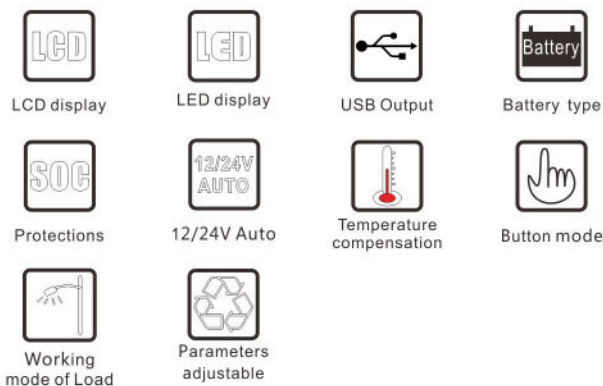
With a dual USB port max 5V 1.2A output on each model, people can charge mobile phones, DC fans and other DC electronic devices.

With multiple load control modes enable it can be widely use in solar home system, traffic signal, solar street light, solar garden lamp, etc. All in all, it is a popular high efficient product.

## Electronic Protections

- Battery over charge protection
- Battery over discharge protection
- Over load protection
- Reverse current protection at night
- Reverse connection protection of battery
- Overheat protection and short circuit protection of USB output

## Features



## LCD Display

### Model: MSCC1010D



optional **USB**

Rated Voltage: 12V/24V Auto identified  
 Rated Current: 5A, 10A  
 USB Port: 5V, 1A x 2

Packing info: 50pcs/carton  
 Carton size: 415mm x 305mm x 230mm  
 Volume: 0.029m<sup>3</sup>

### Model: MSCC2020D



optional **USB**

Rated Voltage: 12V/24V Auto identified  
 Rated Current: 20A  
 USB Port: 5V, 1A x 2

Packing info: 40pcs/carton  
 Carton size: 465mm x 320mm x 210mm  
 Volume: 0.031m<sup>3</sup>

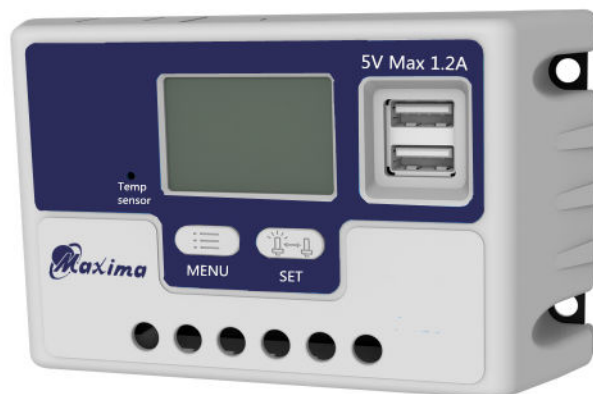
### Model: MSCC3030D



optional **USB** Bigger connector!!

Rated Voltage: 12V/24V Auto identified  
 Rated Current: 30A  
 USB Port: 5V, 1A x 2

Packing info: 30pcs/carton  
 Carton size: 515mm x 360mm x 165mm  
 Volume: 0.031m<sup>3</sup>



Technical Data

Model	MSCC1010D	MSCC2020D	MSCC3030D	
Display		LCD		
Solar Input	Input voltage	≤50V		
	Rated input current	10A	20A	30A
	Charge loop voltage drop	≤0.3V		
Battery	System voltage	12V/24V Auto		
	No load loss	≤12.5mA(12V), ≤14.5mA(24V)		
	USB output	5V/1A		
	Charging mode	PWM		
	Float charge voltage	13.8V(13V~15V)x1/x2		
	Absorption charge voltage	14.4V(13V~15V)x1/x2		
	Equalized charge voltage	14.6V(13V~15V)x1/x2		
	Temperature compensation	-4mV/Cell/°C		
Load	Rated load current	10A	20A	30A
	Discharge loop drop	≤0.18V		
	Low voltage disconnect	10.8V/21.6V		
	Low voltage reconnect	12.6V/25.2V		
	Over voltage disconnect	16.0V/32.0V		
Related	Max wire size	6mm <sup>2</sup> ~16mm <sup>2</sup>		
	Working temperature	-10°C~50°C		
	Working humidity	10%~90%,no condensation		
	Dimension(L×W×H)	130x75x38(mm)	140x85x42.5(mm)	160x95x42.5(mm)
	Net weight	175g	230g	327g

