

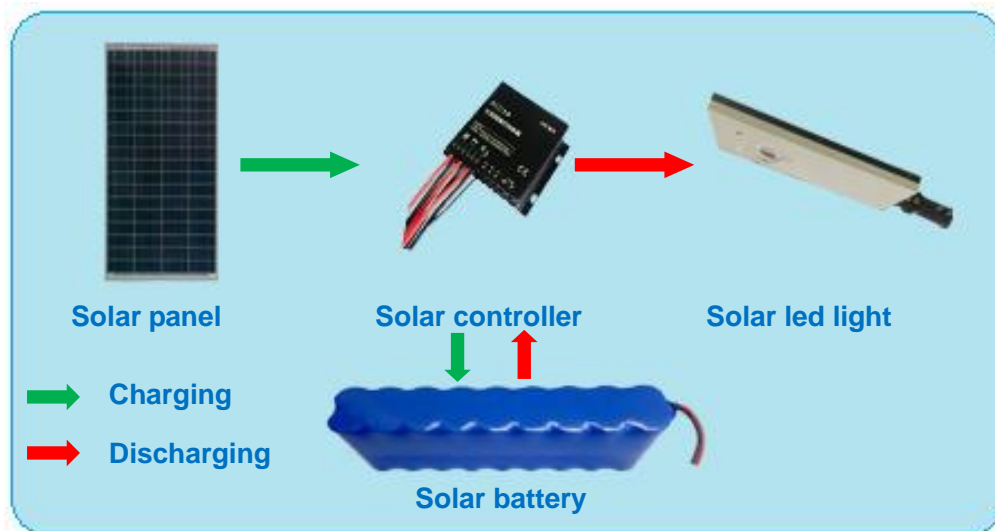
## MCC series of MPPT solar controller of charge and led driver

### Main features and advantages:

- Adopt high efficiency up to 99.9% of MPPT technology which can improve system efficiency and reduce system cost.
- Adopt three stage MPPT technology to intelligently manage charging and discharging of battery based on temperature compensation to extend the working life of battery greatly.
- Multiple intelligent control modes such as light control, time control, dimming and PIR to drive led light.
- Infrared wireless communication with computer and remote controller to setup parameters and view data conveniently.
- With multiple protection function including reverse protection, undervoltage protection, short-circuit and open-circuit protection, reverse discharge protection, etc.
- Suitable for both lithium ion battery and lead acid battery.
- Built-in lightning surge protection.



### Description of product:



## Main technical parameters:

Model	MCC-10	MCC-15
<b>Parameters for battery</b>		
System voltage	12V/24V automatic recognition	
Max. charging current(A)	10	15
Range of charging voltage(V)	8-30	
MTTP charging voltage @25°C(V)	≤14.4(12V), ≤28.8(24V)	
Constant voltage charging @25°C(V)	14.4(12V), 28.8(24V)	
Floating charging voltage @25°C(V)	13.8(12V), 27.6(24V)	
Undervoltage protection @25°C(V)	11(12V), 22(24V)	
Coefficient of temperature compensation	-4mV/°C/2V	
<b>PV parameters</b>		
Opening voltage of PV(V)	≤60	
Turn-off voltage of PV(V)	≥8(12V), ≥14(24V)	
Turn-on voltage of PV(V)	≤6(12V), ≤12(24V)	
Tracking range of MTTP(V)	14≤Vmp≤40(12V), 28≤Vmp≤40 (24V)	
<b>Parameter for led light</b>		
Driving current (mA)	0-4000	
Driving voltage (V)	12-60(12V), 32-60(24V)	
Maximum driving power(W)	80(12V), 160(24V)	
Accuracy of driving current	≤3%	
Driving mode	light control, time control, dimming and PIR	
Dimming range	0-100%	
<b>System parameters</b>		
Efficiency of MPPT	≥99.9%	
Consumption of static power(mA)	≤8	
Communication mode	Infrared wireless communication	
Historical data	1 year	
Working temperature(°C)	-25~+60	
Working humidity(RH)	0-100%	
Altitude height(m)	3000	
IP protection	IP67	
Certification	CE/RoHS	
<b>Mechanical parameters</b>		
Weight(Kg)	0.26	0.35
Dimensions(mm)	100*82*20	130*82*20

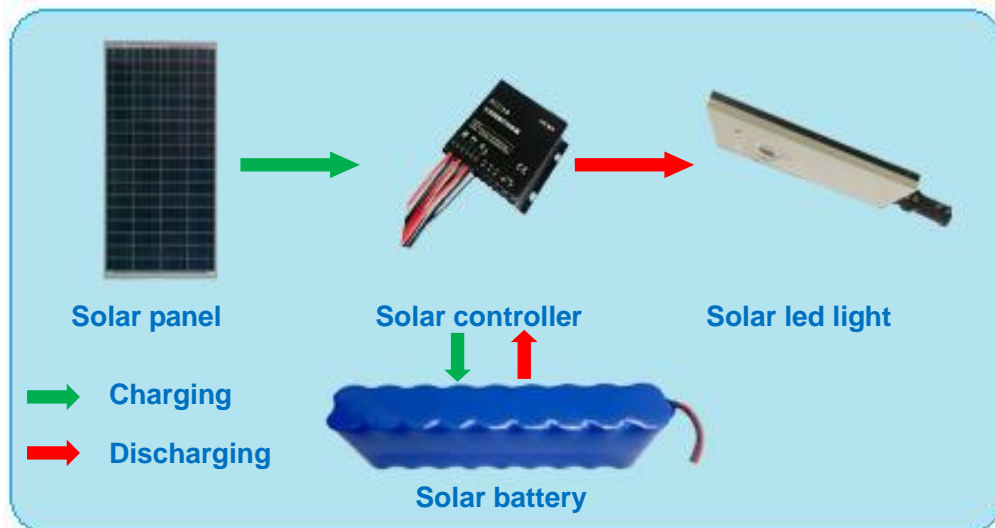
## PCC series of PWM solar controller of charge and led driver

### Main features and advantages:

- Adopt three stage PWM technology to intelligently manage charging and discharging of battery based on temperature compensation to extend the working life of battery greatly.
- Multiple intelligent control modes such as light control, time control, dimming and PIR to drive led light.
- Infrared wireless communication with computer and remote controller to setup parameters and view data conveniently.
- With multiple protection function including reverse protection, undervoltage protection, short-circuit and open-circuit protection, reverse discharge protection, etc.
- Suitable for both lithium ion battery and lead acid battery.
- Built-in lightning surge protection.



### Description of product:



## Main technical parameters:

Model	PCC-10	PCC-15
<b>Parameters for battery</b>		
System voltage	12V/24V automatic recognition	
Max. charging current(A)	10	15
Range of charging voltage(V)	8-30	
MTTP charging voltage @25°C(V)	≤14.4(12V), ≤28.8(24V)	
Constant voltage charging @25°C(V)	14.4(12V), 28.8(24V)	
Floating charging voltage @25°C(V)	13.8(12V), 27.6(24V)	
Undervoltage protection @25°C(V)	11(12V), 22(24V)	
Coefficient of temperature compensation	-4mV/°C/2V	
<b>PV parameters</b>		
Opening voltage of PV(V)	≤60	
Turn-off voltage of PV(V)	≥8(12V), ≥14(24V)	
Turn-on voltage of PV(V)	≤6(12V), ≤12(24V)	
<b>Parameter for led light</b>		
Driving current (mA)	0-3300	
Driving voltage (V)	12-60(12V), 32-60(24V)	
Maximum driving power(W)	60(12V), 100(24V)	
Accuracy of driving current	≤3%	
Driving mode	light control, time control, dimming and PIR	
Dimming range	0-100%	
<b>System parameters</b>		
Efficiency of PWM	≥96%	
Consumption of static power(mA)	≤10	
Communication mode	Infrared wireless communication	
Historical data	1 year	
Working temperature(°C)	-25-+60	
Working humidity(RH)	0-100%	
Altitude height(m)	3000	
IP protection	IP67	
Certification	CE/RoHS	
<b>Mechanical parameters</b>		
Weight(Kg)	0.18	0.26
Dimensions(mm)	66*82*20	100*82*20