



EP Series Solar Light Controller

EPHC10 - EC series



Rated Current : 10A

System Voltage : 12/24V Auto Work

Load work mode: TEST, ON/OFF
EPHC10 - EC series is a reliable and economical solar controller.

Features :

Intelligent System Optimum Control

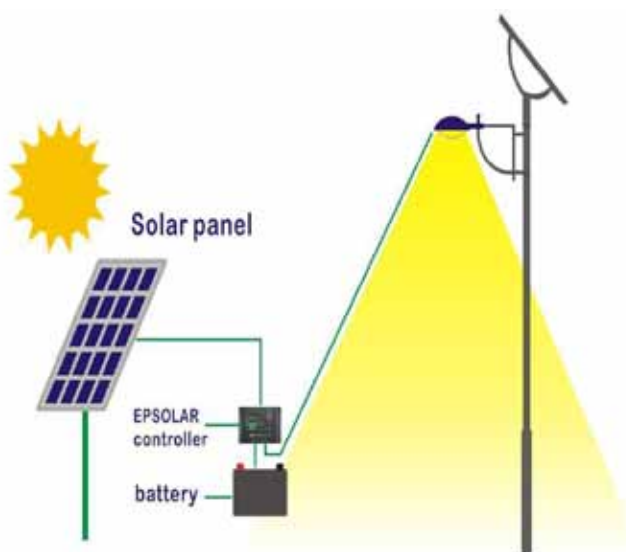
12/24V auto work

High efficient Series PWM charging with temperature compensation

Use MOSFET as electronic switch, without any mechanical switch

Load and battery status indicators

Electronic protection: over charging, over discharging, overload, and short circuit





Application :

Ideal for off-grid solar lighting system

- ☒ Solar home system
- ☒ Solar garden light system
- ☒ Solar billboard



Model selection:

EPHC10-EC 10A, 12/24V AUTO

Ideal for off-grid solar system up to 120W, 12V or 270W, 24V

Our Advantage :

- ☒ Sophisticated R&D has over 20 years research experience
- ☒ Professional technical and service team
- ☒ Using world top class electronic components; all the components are industrial grade
- ☒ High quality products with reasonable price; the failure rate is less than 2 per1000 pcs
- ☒ Practical application in more than 120 countries
- ☒ Expected 10 years lifetime
- ☒ 2 years warranty



Technical specifications

Electrical parameters	
System voltage	12 / 24VDC Auto work
Rated battery current	10A
Rated load current	10A
Charge circuit voltage drop	≤0.26V
Discharge circuit voltage drop	≤0.15V
Self consumption	≤6mA

Battery voltage parameters (TEMPCO -5mV/℃ /2V,25℃ ref)	
Equalize charging voltage	14.6V;x2/24V
Boost charging voltage	14.4V;x2/24V
Float charging voltage	13.6V;x2/24V
Low voltage reconnect charging voltage	12.6V;x2/24V
Under voltage warning voltage	12V; x2/24V
Low voltage disconnect voltage	11.1V;x2/24V
Equalize duration	60 MINS
Boost duration	60 MINS

Environmental parameters	
Working temperature	-35℃ to +55℃
Humidity	10%-90% NC
Enclosure	IP30
Terminal	2.5mm ²
Dimension	140× 89× 27mm
Net weight	0.23kg



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