

EP Series Solar Light Controller

EPRC10-EC series



Rated Current: 10A

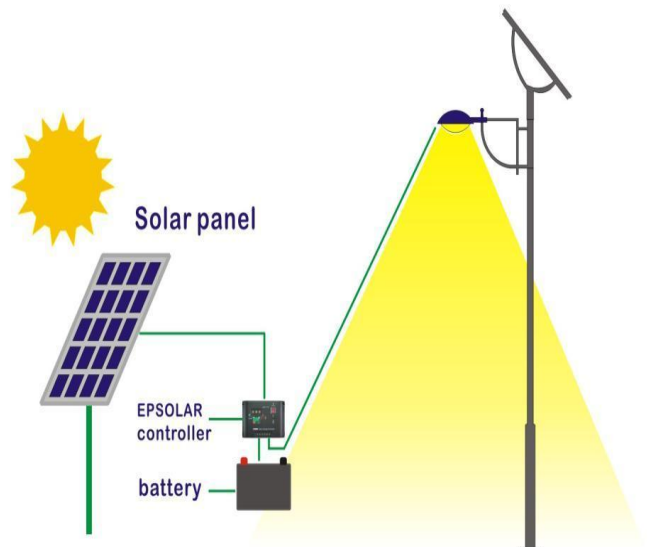
System Voltage: 12/24V Auto Work

Load work mode: Dusk to Dawn, Light ON+ timer, TEST, ON/OFF

EPRC10-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
- ◆ Detects day and night using the PV array
- ◆ Load and battery status indicators
- ◆ Electronic protection: over charging, over discharging, overload, and short circuit





Application :

Ideal for off-grid solar lighting system that needs light and timer control

- ◆ Solar street light system
- ◆ Solar garden light system
- ◆ Solar billboard
- ◆ Solar detection equipment at night



Model selection:

EPRC10-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/°C/2V,25°C 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°C to +55°C
Humidity	10%-90% NC
Enclosure	IP30
Terminal	2.5mm ²
Dimension	140×89×27mm
Net weight	0.23kg



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