

EC series



EPRC10-EC

SOLAR LIGHT CONTROLLER

Rated Current: 10A

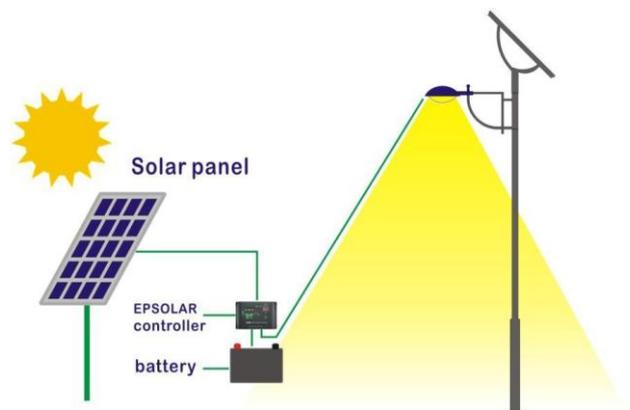
System Voltage: 12/24V Auto Work

Load work mode:

Dusk to Dawn, Light ON+ timer, TEST, ON/OFF

EPRC10-EC series is a reliable and economical solar controller.

- 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's and works in close collaboration with Beihang University.
- ★ 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

Electrical parameters

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

Battery voltage parameters (TEMPCO -30mV/°C/12V,25°C ref)

Equalize charging voltage	14.8V;x2/24V
Boost charging voltage	14.4V;x2/24V
Float charging voltage	13.7V;x2/24V
Low voltage reconnect charging voltage	13.2V;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
Net weight	0.15KG

Mechanical Dimension EPRC10-EC

