



## EPRC10-G

### *SOLAR CONTROLLER FOR SOLAR STREET LIGHT SYSTEMS*

The controller provides the load power from solar or utility electricity, solar power supply first, and electricity feed will be the supplement of system when the battery discharged

#### **Features**

- Microcontroller digital accuracy
- PWM Charge mode
- State of charge (SOC)
- Specially designed for solar/utility hybrid system
- Battery backup supply power first
- Temperature compensation
- Automatic detection of the voltage & full automatic operation
- The terminal connected to ground designed

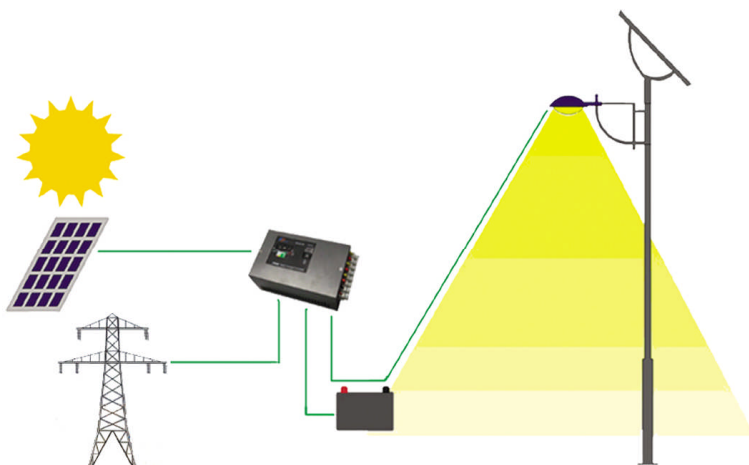
#### **Electronic protection**

- Short circuit protection
- Reverse polarity protection
- Reverse current protection at night
- Over charging or discharging protection
- Over load protection

#### **LED indicator**

- 4 LED indicators
- PV: Green –charging
- Battery: Green-Yellow-Red
- Load: Red –output on
- Red flashing& blinking shows mistakes
- The forth LED shows timers

## Application



## Technical specification

**EPRC10-G: 12 or 12/24 VOLT auto**

**Rated current: 10A, 15A, 20A**

**Load option: 60W, 100W, 200W, 400W for DC load**

Utility electricity: 110V AC 60HZ, 220VAC 50HZ

Equalization voltage: 14.8 Volt

Boost voltage: 14.4 Volt

Float voltage: 13.6 Volt

Low voltage disconnect (LVD) 11.1 Volt

Low voltages reconnect (LVR): 12.6Volt

Temperature compensation:  $-30\text{mv}/^{\circ}\text{C}/12\text{V}$

Self-consumption: 6mA maximum

Terminals: for wire sizes to 6mm<sup>2</sup>

Temperature:  $-35^{\circ}\text{C}$  to  $+55^{\circ}\text{C}$

Notes: It is for 12V system. Please X2 for 24V system.