

PWM Solar charge controller

LandStar series (LS0512R)



LandStar series solar light controller that adopts the most advanced digital technique and operates fully automatically. The Pulse Width Modulation (PWM) battery charging can greatly increase the lifetime of battery.

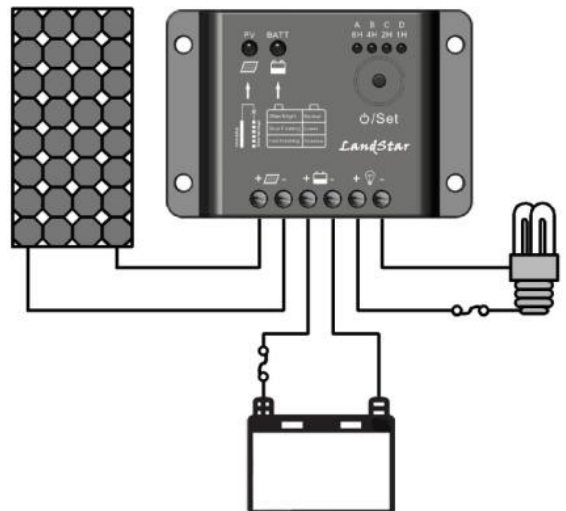
Features:

- ◆ High efficient Series PWM charging
- ◆ LED indicators indicate battery status
- ◆ Widely used, automatically recognize day/night
- ◆ Intelligent timer function with 1-12 hours option
- ◆ Use MOSFET as electronic switch
- ◆ Temperature compensation
- ◆ Electronic protection: over charging, over discharging, overload, and short circuit
- ◆ Battery reverse polarity protection

Application:

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

- ◆ Solar street lights
- ◆ Solar garden lights
- ◆ Solar detection equipment at night



Technical specifications

Electrical parameters	LS0512R
Nominal system voltage	12 VDC
Max. battery voltage	16V
Rated battery current	5A
Charge circuit voltage drop	≤0.26V
Discharge circuit voltage drop	≤0.15V
Self-consumption	≤6mA

Battery voltage parameters (temperature at 25°C)	
Battery type	Sealed
Equalize charging voltage	14.6V
Boost charging voltage	14.4V
Float charging voltage	13.8V
Low voltage reconnect voltage	12.6V
Low voltage disconnect voltage	11.1V
Equalize duration	2 hours
Boost duration	2 hours

Environmental parameters		Mechanical parameters	
Working temperature	-35°C to +55°C	Overall dimension	97x66x25mm
Storage temperature	-35°C to +80°C	Mounting dimension	86x44mm
Humidity	10%-90% NC	Terminal	2.5mm ²
Enclosure	IP30	Net weight	0.05kg



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