

PWM Solar charge controller

LandStar series (LS1024R,LS2024R)



LandStar series solar charge 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.

Application:

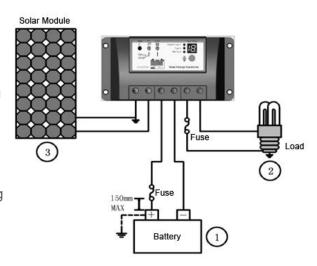
Ideal for off-grid solar lighting system that needs light and timer control

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



Features:

- ◆ 12/24V auto work
- High efficient Series PWM charging
- Gel, Sealed and Flooded battery type option
- Widely used, automatically recognize day/night
- Intelligent timer function with 1-15 hours option
- Digital LED menu with simple setting and easy using
- Use MOSFET as electronic switch
- Temperature compensation
- Electronic protection: over charging, over discharging, overload, short circuit, and overheating
- Reverse protection: any combination of solar module and battery





Technical specifications

Electrical parameters	LS1024R	LS2024R	LS2024R	
Nominal system voltage	12 / 24VDC auto work			
Rated battery current	10A	15A	20A	
Max. battery voltage	32V			
Charge circuit voltage drop	≤0.26V			
Discharge circuit voltage drop	≤0.15V			
Self-consumption	≤6mA			

Battery voltage parameters (temperature at 25℃)						
Battery charging setting	Gel	Sealed	Flooded			
Equalize charging voltage	<u></u>	14.6V;x2/24V	14.8V;x2/24V			
Boost charging voltage	14.2V;x2/24V	14.4V;x2/24V	14.6V;x2/24V			
Float charging voltage	13.8V;x2/24V	13.8V;x2/24V	13.8V;x2/24V			
Low voltage reconnect voltage	12.6V;x2/24V	12.6V;x2/24V	12.6V;x2/24V			
Low voltage disconnect voltage	11.1V;x2/24V	11.1V;x2/24V	11.1V;x2/24V			
Equalize duration		2 hours	2 hours			
Boost duration	2 hours	2 hours	2 hours			

Environmental para	parameters Mechanical parameter		LS1024R	LS2024R
Working temperature	-35°C to +55°C	Overall dimension	140 x 65 x 34mm	144x 75x 45mm
Storage temperature	-35°C to +80°C	Mounting dimension	130 x 45mm	135 x 55mm
Humidity	10%-90% NC	Terminal	4mm²	10mm²
Enclosure	IP30	Net weight	0.15kg	0.25kg



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