

PWM Solar charge controller

LandStar series (LS1024S,LS2024S)



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.

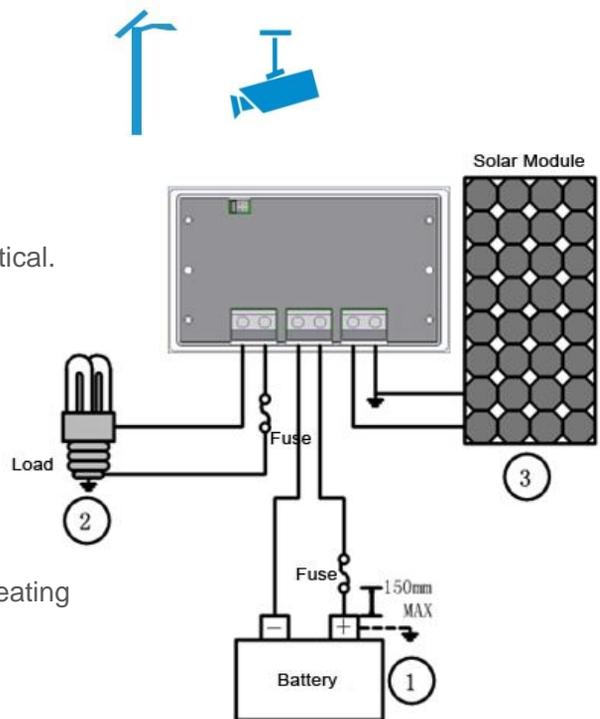
Application:

All the terminals backwards. Ideal for surfacing mounting solar system.

- ◆ Solar home system
- ◆ Portable solar system

Features:

- ◆ Surfacing mounting
- ◆ High efficient Series PWM charging
- ◆ Gel, Sealed and Flooded battery type option.
- ◆ Select battery type by jumper, simple and practical.
- ◆ LED indicator shows battery level, direct and convenient.
- ◆ 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	LS1024S	LS2024S
Nominal system voltage	12 / 24VDC auto work	
Rated battery current	10A	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	—	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 parameters		Mechanical parameters	LS1024S	LS2024S
Working temperature	-35℃ to +55℃	Overall dimension	120x68x40mm	128x87x48mm
Storage temperature	-35℃ to +80℃	Mounting dimension	114x 64mm	122 x 83mm
Humidity	10%-90% NC	Terminal	4mm ²	10mm ²
Enclosure	IP30	Net weight	0.15kg	0.25kg



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