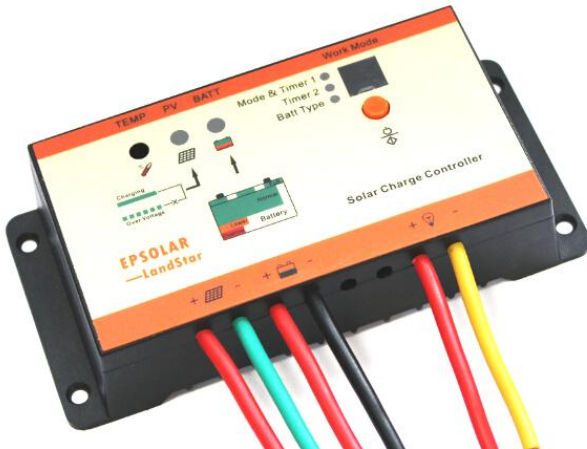


PWM Solar charge controller

LandStar series (LS1024RP,LS2024RP)



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.

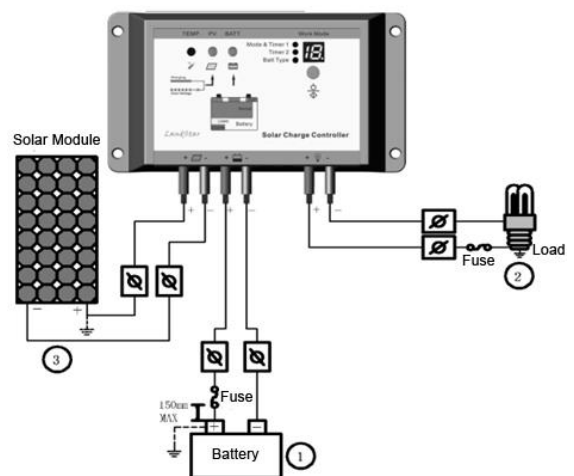
Application:

Ideal for extreme environments with corrosion, dust, water etc

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

Features:

- ◆ Waterproof design
- ◆ 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
- ◆ Use MOSFET as electronic switch
- ◆ Digital LED menu with simple setting and easy using
- ◆ 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	LS1024RP	LS2024RP
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	LS1024RP	LS2024RP
Working temperature	-35℃ to +55℃	Overall dimension	145 x 69 x 31mm	145 x 85 x 34mm
Storage temperature	-35℃ to +80℃	Mounting dimension	135 x 49mm	135 x 65mm
Humidity	10%-90% NC	Wire diameter	4mm ²	6mm ²
Enclosure	IP66	Net weight	0.3kg	0.4kg



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