

10A 15A 20A Waterproof LandStar Solar Controller Regulators



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Model: LS1024RP/LS1524RP/LS2024RP

Light and timer control (Single timer and dual timer optional)

Waterproof design

Ideal for the extreme environments with corrosion, dust, water etc

Current: 10A/15A/20A

Voltage: 12/24V auto work

Features :

- 12/24V automatic recognition
- High efficient Series PWM charging, increase the battery lifetime and improve the solar system performance.
- Use MOSFET as electronic switch, without any mechanical switch
- Widely used, automatically recognize day/night.
- Digital LED menu, only one key solve all setting simply
- Intelligent timer function with 1-15 hours option
- Unique dual timer function, enhance the flexibility of street light system.

- Waterproof design, suitable for the extreme environment with corrosion, dust, water etc.
- Gel, Sealed and Flooded battery type option.
- Adopt temperature compensation, correct the charging and discharging parameters automatically and improve the battery lifetime.
- Electronic protection: Overheating, over charging, over discharging, overload, and short circuit.
- Reverse protection: any combination of solar module and battery.

Technical specifications

Electrical Parameters

Description	Parameter
Nominal System Voltage	12 / 24VDC Auto work
Battery Voltage Range	6-36V
	LS1024RP 10A
Rated Battery Current	LS1524RP 15A
	LS2024RP 20A
Charge Circuit Voltage Drop	≤0.26V
Discharge Circuit Voltage Drop	≤0.15V
Self-consumption	≤6mA

Temperature Compensation Coefficient

Description	Parameter
Temperature Compensation Coefficient (TEMPCO)*	-30mV/□/12V (25□ ref)

* Compensation of equalize, boost, float and boost reconnect voltage

Battery Voltage Parameters (temperature at 25□)

Charging Parameters			
Battery charging setting	Gel	Sealed	Flooded
Over Voltage Disconnect Voltage	16V; x2/24V	16V; x2/24V	16V; x2/24V
Charging Limit Voltage	15.5V;x2/24V	15.5V;x2/24V	15.5V;x2/24V
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
Boost Reconnect Charging Voltage	13.2V;x2/24V	13.2V;x2/24V	13.2V;x2/24V
Low Voltage Reconnect Voltage	12.6V;x2/24V	12.6V;x2/24V	12.6V;x2/24V
Under voltage warning reconnect voltage	12.2V;x2/24V	12.2V;x2/24V	12.2V;x2/24V
Under Voltage Warning Voltage	12V; x2/24V	12V; x2/24V	12V; x2/24V
Low Voltage Disconnect Voltage	11.1V;x2/24V	11.1V;x2/24V	11.1V;x2/24V
Discharging Limit Voltage	10.8V;x2/24V	10.8V;x2/24V	10.8V;x2/24V
Equalize duration	—	2 hours	2 hours
Boost duration	2 hours	2 hours	2 hours

Environmental parameters

Environmental parameters	Parameter
Working temperature	-35° to +55°
Storage temperature	-35° to +80°
Humidity	10%-90% NC
Enclosure	IP66



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