

LandStar series



SOLAR SYSTEM CONTROLLER

Rated Current: 10A

System Voltage: 12/24V Auto Work

Load work mode: ON/OFF

LS1024 series is a new generation solar controller.

It has many few features and advantage

- Intelligent System Optimum Control
- High efficient Series PWM charging with temperature compensation
- Compact size
- Use MOSFET as electronic switch, without any mechanical switch
- Digital LED menu, only one key choose the battery type
- Load status display
- Gel, Sealed and Flooded battery type option
- Big terminals and big distance between terminals
- Electronic protection: Overheating, over charging, over discharging, overload, and short circuit
- Reverse polarity protection: Any combination of solar module and battery



Application :

Ideal for off-grid solar system that loads are normally on or controlled by manual

- ★ Solar home system
- ★ Solar CCTV system
- ★ Solar traffic system
- ★ Wild automatic detection equipment



Model selection :

LS1024 10A 12/24V AUTO

Ideal for off-grid solar system up to 120W, 12V or 270W, 24V

LS1524 15A 12/24V AUTO

Ideal for off-grid solar system up to 200W, 12V or 400W, 24V

LS2024 20A 12V/24V AUTO

Ideal for off-grid solar system up to 270W, 12V or 550W, 24V

Our Advantage :

- ★ Sophisticated R&D has over 20 years research experience's and works in close collaboration with Beihang University.
- ★ Professional technical and service team
- ★ Using world top class electronic components; all the components are industrial grade
- ★ High quality products with reasonable price; the failure rate is less than 2 per1000 pcs
- ★ Practical application in more than 120 countries
- ★ Expected 10 years lifetime

Electrical parameters

System voltage	12 / 24VDC Auto work	
Battery voltage	6-36V	
	LS1024	10A
Nominal battery current	LS1524	15A
	LS2024	20A
Charge circuit voltage drop	≤0.26V	
Discharge circuit voltage drop	≤0.15V	
Self consumption	≤6mA	

Battery voltage parameters (TEMPCO -30mV/°C/12V,25°C ref)

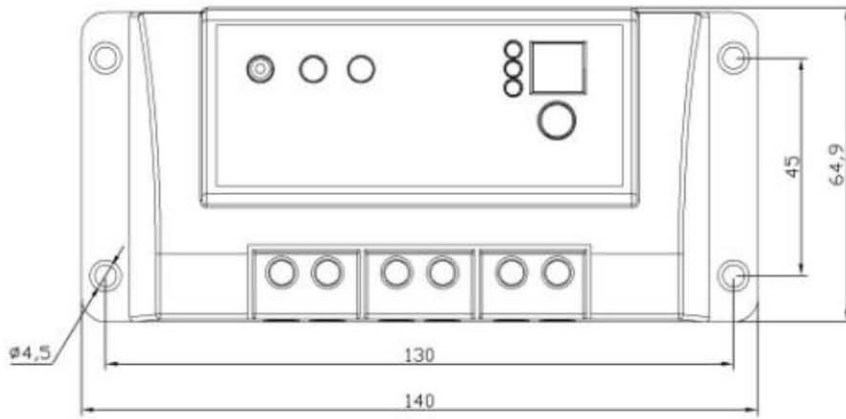
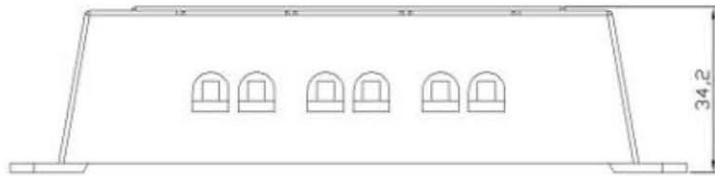
Battery charging setting	Gel	Sealed	Flooded
Over voltage disconnect voltage	16V;x2/24V	16V;x2/24V	16V;x2/24V
Charging limit voltage	15.5V;x2/24V	15.5V;x2/24V	15.5V;x2/24V
Equalize charging voltage	—	14.6V;x2/24V	14.8V;x2/24V
Boost charging voltage	14.2V;x2/24V	14.4V;x2/24V	14.6V;x2/24V
Float charging 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 charging 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	—	2hours	2 hours
Boost duration	2 hours	2 hours	2 hours

Environmental parameters

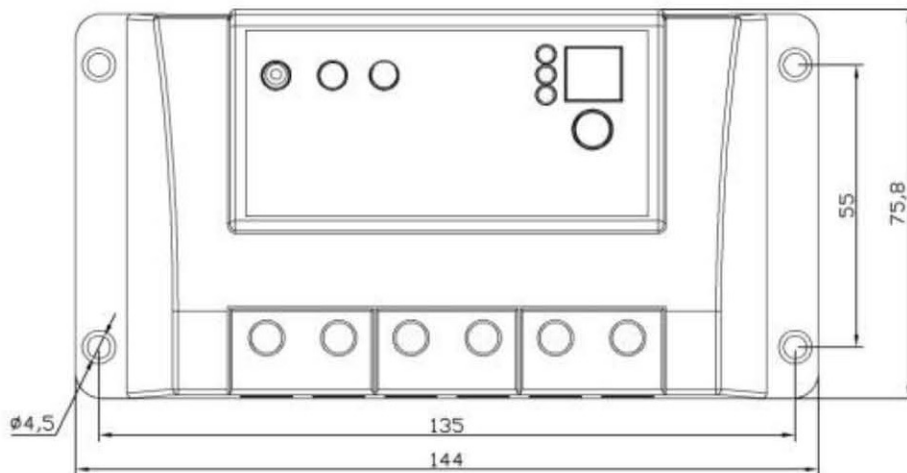
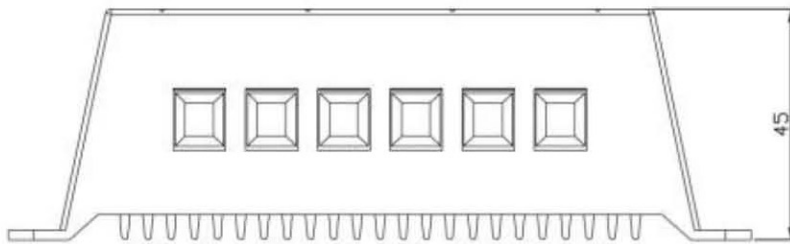
Working temperature	-35°C to +55°C
Storage temperature	-35°C to +80°C
Humidity	10%-90% NC
Enclosure	IP30

Mechanical parameters

	LS1024	LS1524/ LS2024
Overall dimension	140mm x 65mm x 34mm	143mm x 75mm x 45mm
Mounting dimension	130mm x 45mm	135mm x 55mm
Terminal	6mm ²	10mm ²
Net weight	0.15kg	0.25kg



Mechanical Dimension LS1024



Mechanical Dimension LS1524 /LS2024