

LandStar series



- 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 solve all setting simply
- Load status display
- Gel, Sealed and Flooded battery type option
- Big terminals and big distance between terminals (10A/6 mm², 15A, 20A/10 mm²)
- Electronic protection: Overheating, over charging, over discharging, overload, and short circuit
- Reverse polarity protection: Any combination of solar module and battery

LS1024RD/LS1524RD/LS2024RD

SOLAR LIGHT CONTROLLER

Rated Current: 10A, 15A, 20A

System Voltage: 12/24V Auto Work

Load work mode: Dusk to Dawn, Light On+timer, Test, ON/OFF

Intelligent timer function with 1-15 hours option
Dual load output, enhance the flexibility of the system.



Application :

Ideal for solar lighting system with two lamps that needs different timer setting,

- ★ Solar street lights
- ★ Solar garden lights



Model selection:

LS1024RD 10A 12/24V AUTO

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

LS1524RD 15A 12/24V AUTO

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

LS2024RD 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
- ★ 2 years warranty

Electrical parameters

System voltage	12 / 24VDC Auto work	
Battery voltage	6-36V	
Nominal battery current	LS1024RD	10A
	LS1524RD	15A
	LS2024RD	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

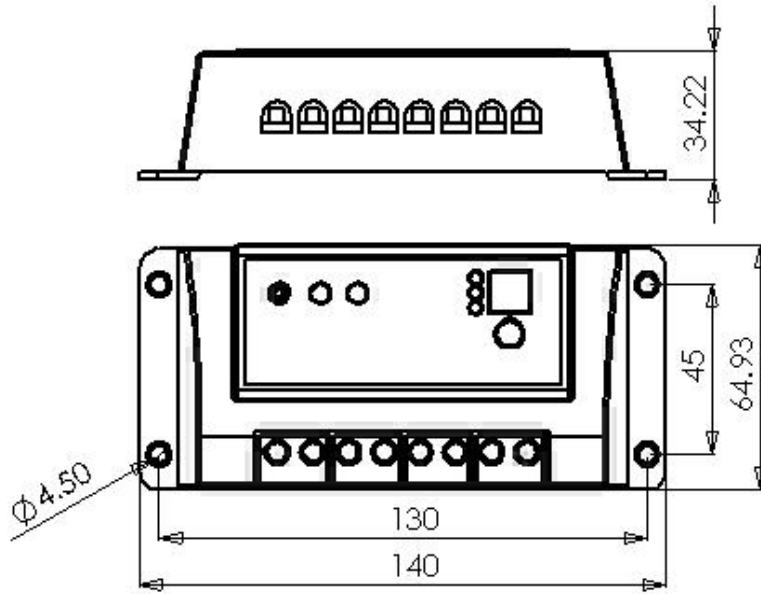
Environmental parameters

Mechanical parameters

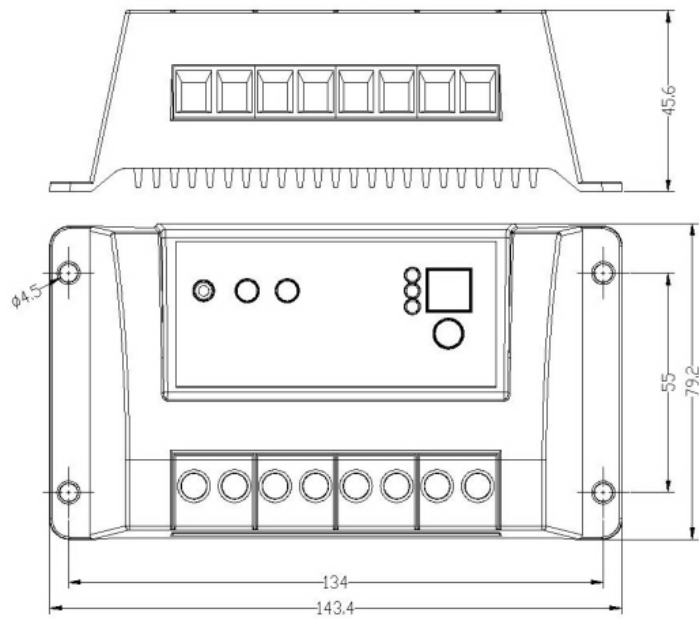
LSI024RD

LSI524RD/LS2024RD

Working temperature	-35°C to +55°C	Overall dimension	140mm x 65mm x 34mm	143mm x 79mm x 45mm
Storage temperature	-35°C to +80°C	Mounting dimension	130mm x 45mm	134mm x 55mm
Humidity	10%–90% NC	Terminal	6mm ²	10mm ²
Enclosure	IP30	Net weight	0.15kg	0.3kg



Mechanical Dimension LS1024RD



Mechanical Dimension LS1524RD /LS2024RD