

PWM Solar charge controller

LandStar LS-E series



LS - E is newly launched economical solar charge controller of LandStar series. It adopts the most advanced digital technique and operates fully automatically for nominal system voltage of 12V/24V. The Pulse Width Modulation (PWM) battery charging can greatly increase the lifetime of battery. It's easy to use, with various unique functions.

Model overview:

LS0512E 5A,12V
LS1012E 10A,12V
LS1024E 10A,12/24V
LS2024E 20A,12/24V

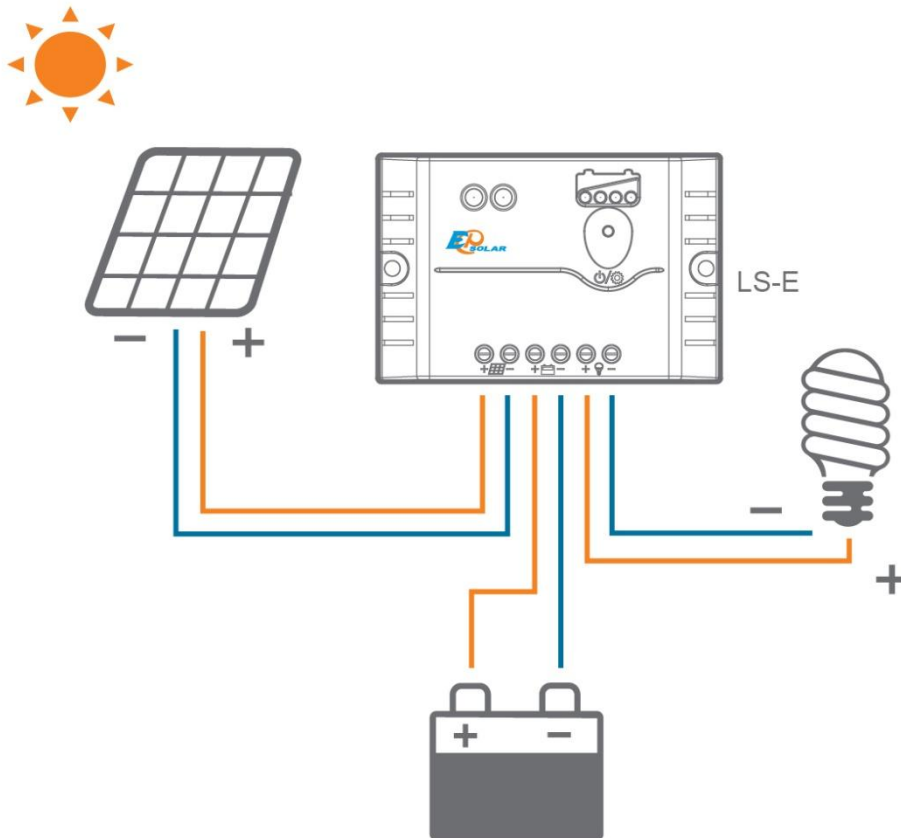


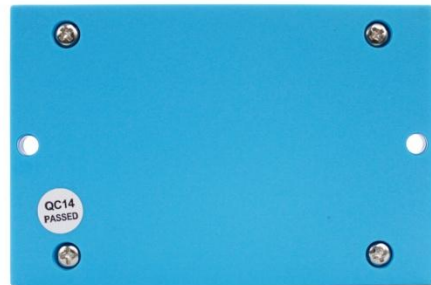
Features:

- High efficient Series PWM charging, increase battery lifetime and improve solar system performance
- Use MOSFET as electronic switch, without any mechanical switch
- LED indicators show battery voltage status
- Adopt temperature compensation, correct charging and discharging parameters automatically to improve battery lifetime
- Electronic protection: over charging, over discharging, overload, and short circuit
- Battery reverse polarity protection

Electronic protections:

- Load overload protection
- Load short circuit protection
- Battery over discharge protection
- Battery reverse polarity protection





Technical specifications :

Model	LS0512E	LS1012E	LS1024E	LS2024E
Nominal system voltage	12VDC		12/24VDC	
Rated battery current	5A	10A	10A	20A
Max. battery voltage	16V		32V	
Max. PV open circuit voltage	30V		50V	
Equalize charging voltage	Gel: ----, Sealed: 14.6V, Flooded: 14.8V			
Boost charging voltage	Gel: 14.2V, Sealed: 14.4V, Flooded: 14.6V			
Float charging voltage	Gel / Sealed / Flooded:13.8V			
Low voltage reconnect voltage	Gel / Sealed / Flooded:12.6V			
Low voltage disconnect voltage	Gel / Sealed / Flooded:11.1V			
Charge circuit voltage drop	≤0.26V			
Discharge circuit voltage drop	≤0.15V			
Self-consumption	≤6mA			
Temp. compensation	-5mV/°C/2V (ref)			
Overall dimension(mm)	92.8x65x20.2	101.2x67x21.8	101.2x67x21.8	128x85.6x34.8
Mounting dimension	84.4mm	92.7mm	92.7mm	118mm
Mounting hole size	Φ4.5	Φ4.5	Φ4.5	Φ4.5
Terminal	2.5mm ²	4mm ²	4mm ²	6mm ²
Weight	74g	82.5g	82g	151.6g
Working temperature	-35°C ~ +55°C			
Storage temperature	-35°C ~ +80°C			
Humidity	≤95% N.C.			
Enclosure	IP30			



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