

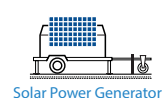
### Overview

LandStar E series is reliable, stable, and economical solar charge controller, easy for operation. Based on the LS-E series, LS-EU series add a +5V/1.2A USB terminal output which can charge mobile phone, or power DC fans, and other DC electronic device.



### Features

- 3-Stage intelligent PWM charging: Bulk, Boost/Equalize, Float
- Support 3 charging options: Sealed, Gel, and Flooded
- Battery status LED indicator can indicate battery situation
- Battery temperature compensation function
- With humanized settings, operation will be more comfortable and convenient
- The USB will provide power supply that can charge for electronic equipment (LS EU series only)
- Battery type and load output can be set via button
- Extensive Electronic protection



## Technical specifications

Model	LS0512 E	LS1012 E	LS1024 E	LS2024 E	LS0512 EU	LS1012 EU	LS1024 EU	LS2024 EU	LS3024 EU
Nominal system voltage	12VDC		12/24VDC Auto		12VDC		12/24VDC Auto		
Rated charge current	5A	10A		20A	5A	10A		20A	30A
Rated discharge current	5A	10A		20A	5A	10A		20A	30A
Battery input voltage range	8V ~ 16V		8V ~ 32V		8V ~ 16V		8V ~ 32V		
Max. PV open circuit voltage	30V		50V		30V		50V		
Self-consumption	12V≤5mA; 24V≤7mA								
Charge Circuit Voltage Drop	≤0.21V				≤0.13V				
Discharge Circuit Voltage Drop	≤0.12V				≤0.17V				
USB input interface	—				5VDC/1.2A				5VDC/2A
Temperature compensation coefficient	-5mV/°C/2V								
Working environment temperature	-35°C ~ +55°C								
Humidity	≤95%,(N.C.)								
Enclosure	IP30				IP20				
Grounding	Common Positive								
Overall dimension	92.8x65 x20.2mm	101.2x67 x21.8mm	101.2x67 x21.8mm	128x85.6 x34.8mm	109.7x65.5 x20.8mm	120.3x67 x21.8mm	120.3x67 x21.8mm	148x85.6 x34.8mm	148x106.8 X43.7mm
Mounting dimension	84.4mm	92.7mm		118mm	100.9mm	111.5mm		138mm	
Mounting hole size	Φ4.5								
Terminals mm <sup>2</sup>	14AWG/2.5	12 AWG/4	12AWG/4	10AWG/6	14AWG/2.5	12AWG/4	12AWG/4	10AWG/6	8AWG/10
Net weight	0.07kg	0.08kg	0.08kg	0.15kg	0.09kg	0.10kg	0.10kg	0.18kg	0.29kg