

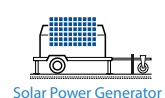
Overview

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 ² | 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 |