PWM Solar charge controller with USB output

LS-EU series





LS-EU solar controller is new member of LandStar family and ideal for small solar system especially home system. It has the beautiful appearance, and simple operation. And the industrial grade design ensures its reliability.

Based on the LS-E series, LS-EU series add a +5V/1.2A USB terminal output which can charge mobile phone, fans and other electronic device.

Model overview:

LS0512EU	5A,12V
LS1012EU	10A,12V
LS1024EU	10A,12/24V
LS2024EU	20A,12/24V
LS3024EU	30A,12/24V

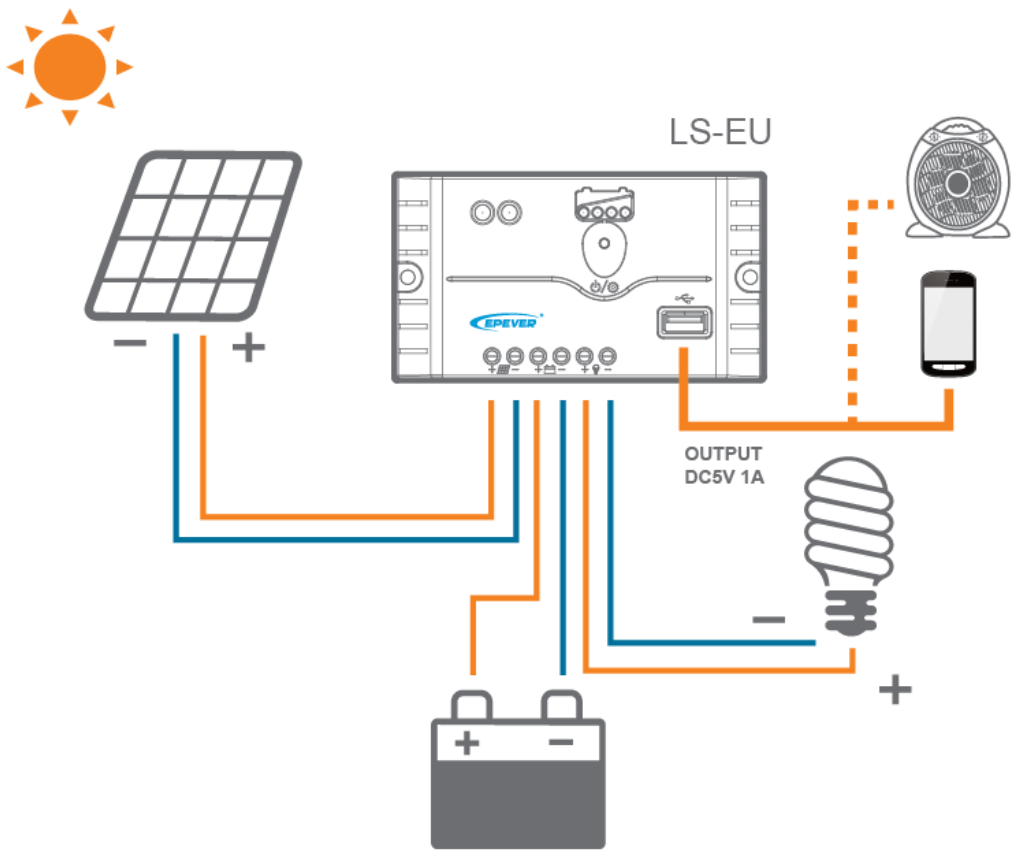


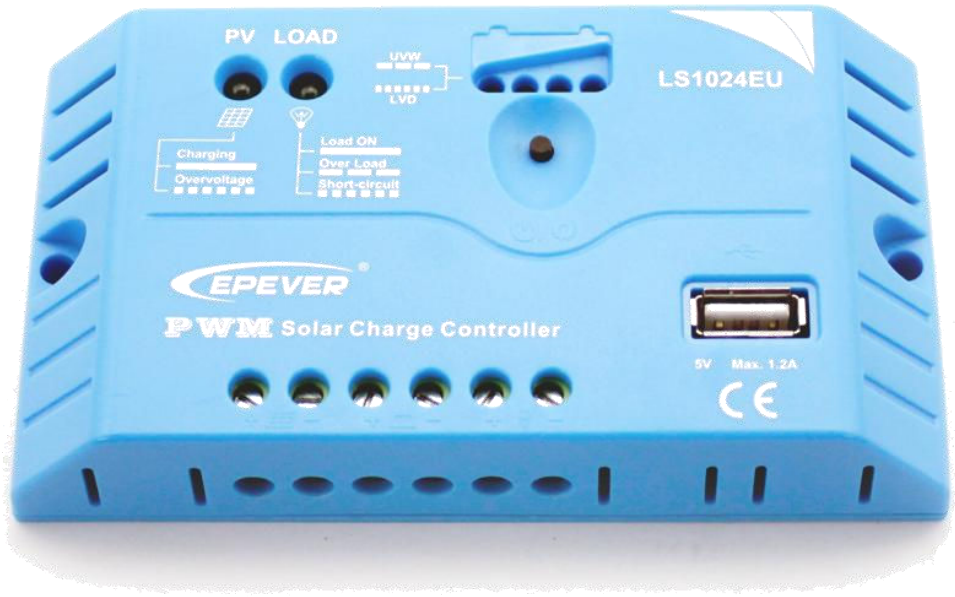
Features：

- 3-Stage intelligent PWM charging：Bulk, Boost/Equalize, Float
- Support 3 charging options: Sealed, Gel, and Flooded
- Battery status LED indicator can indicates 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
- Battery type and load output can be set via button

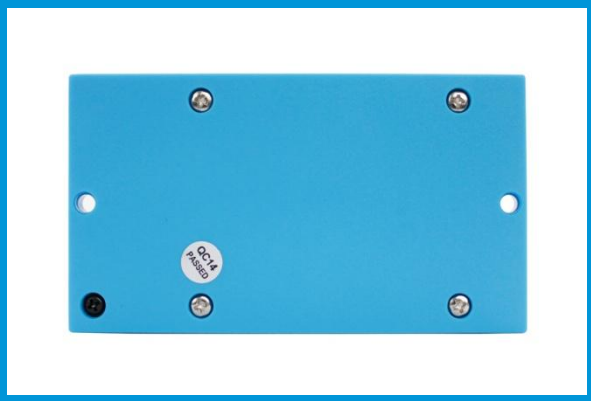
Electronic protections:

- Battery over voltage protection
- Battery over discharge protection
- Load overload protection
- Load short circuit protection




PV LOAD
UVW
LVD
LS1024EU
Charging
Overvoltage
Load ON
Over Load
Short-circuit
EPEVER
PWM Solar Charge Controller
5V Max. 1.2A
CE


PV LOAD
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CE


QC14
PASSED




Charge Controller
5V Max. 1.2A
CE

Technical specifications：

Model	LS0512EU	LS1012EU	LS1024EU	LS2024EU	LS3024EU
Nominal system voltage	12V		12/24V auto		
Rated charge current	5A	10A	10A	20A	30A
Rated discharge current	5A	10A	10A	20A	30A
Battery input voltage range	8~16V		8~32V		
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				
USB output port	5VDC/1.2A				5VDC/2A
Charge circuit voltage drop	≤0.13V				
Discharge circuit voltage drop	≤0.17V				
Self-consumption	≤5mA(12V); ≤7mA (24V)				
Temp. compensation	-5mV/℃/2V				
Enclosure	IP20				
Grounding	Common Positive				
Overall dimension(mm)	109.7x65.5x20.8	120.3x67x21.8	120.3x67x21.8	148x85.6x34.8	148x106.8x43.7
Mounting dimension	100.9mm	111.5mm	111.5mm	138mm	138mm
Mounting hole size	Φ4.5	Φ4.5	Φ4.5	Φ4.5	Φ4.5
Terminals	14AWG /2.5mm^2	12AWG /4mm^2	12AWG /4mm^2	10AWG /6mm^2	8AWG /10mm^2
Net weight	0.09kg	0.10kg	0.10kg	0.18kg	0.29kg
Working temperature	-35℃～+55℃				
Humidity	≤95% N.C.				

* Technical data for 12V system at 25℃, twice in 24V system.

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