

PWM Solar charge controller with USB output



LS-EU series

LS-EU economic 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:

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



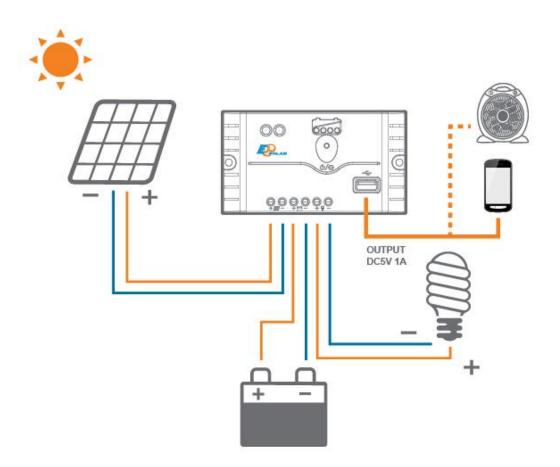


Features:

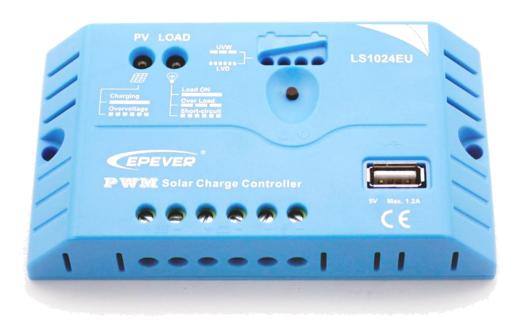
- High efficient Series PWM charging, increase battery lifetime and improve solar system performance
- Use MOSFET as electronic switch, without any mechanical switch
- Intuitive LED indicators showing battery voltage status
- Gel, Sealed, and Flooded battery type optional
- Manual control the output of the load
- Temperature compensation, correct charging and discharging parameters automatically
- Humanized Key, more comfortable and convenient
- Industrial grade design

Electronic protections:

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











Technical specifications:

Model	LS0512EU	LS1012EU	LS1024EU	LS2024EU
Nominal system voltage	12VDC 12/24VDC			
Rated battery current	5A	10A	10A	20A
Max. battery voltage	16V 32V			2V
Max. PV open circuit voltage	30V 50V		OV	
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	5VDC/1.2A			
Charge circuit voltage drop	≤0.26V			
Discharge circuit voltage drop	≤0.15V			
Self-consumption	≤6mA			
Temp. compensation	-5mV/°C/2V (ref)			
Overall dimension(mm)	109.7x65.5x20.8	120.3x67x21.8	120.3x67x21.8	148x85.6x34.8
Mounting dimension	100.9mm	111.5mm	111.5mm	138mm
Mounting hole size	Ф4.5	Ф4.5	Ф4.5	Ф4.5
Terminal	2.5mm ²	4mm²	4mm²	6mm²
Weight	95g	103g	102g	179.6g
Working temperature	-35℃~+55℃			
Storage temperature	-35℃~+80℃			
Humidity	≤95% N.C.			
Enclosure	IP20			



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