

10A-30A PWM LED controller

HES Solar controllers are high quality which are proven for long time use in off grid applications. The devices also feature an integrated USB charging port for charging smart phones and tablets. The controllers demonstrate impressive performance, are simple to use and offer unbeatable value for money.

Several LEDs give information on the battery's state of charge. Here, special latest algorithms are employed, resulting in optimal battery maintenance.

Features

- Serial topology with MOSFETs
- Automatic detection of voltage
- PWM control
- Multi stage charging technology
- Automatic load reconnection
- Temperature compensation
- Positive earth grounding
- Monthly equalisation charge
- USB charge socket for smart phones and tablets



Protections

- Battery Over Voltage
- Battery Over Discharge
- Load Overload
- Load Short Circuit

Operation

Load ON/OFF Manually
24hours working.

Certifications

- Compliant with European Standards (CE)
- RoHS compliant
- Manufactured according to ISO 9001 and ISO 14001



Specifications

Item	LS0512EU	LS1012EU	LS1024EU	LS2024EU	LS0512EU	LS1012EU	LS1024EU	LS2024EU	LS3024EU	
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/℃/2V									
Working environment temperature	-35℃ ~ +55℃									
Humidity	≤95%,(N.C.)									
Enclosure	IP30				IP20					
Grounding	Common Positive									
Overall dimension(mm)	92.8x65 x20.2	101.2x 67 x21.8	101.2x 67 x21.8	128x85.6 x34.8	109.7x 65.5 x20.8	120.3x 67 x21.8	120.3x 67 x21.8	148x 85.6 x34.8	148x 106.8 x43.7	
Mounting dimension(mm)	84.4	92.7	92.7	118	100.9	111.5		138		
Mounting hole size	Φ4.5									
Terminals	14AWG/2 .5mm ²	12AWG/ 4mm ²	12AWG/4 mm ²	10AWG/6 mm ²	14AWG/2 .5mm ²	12AWG/4 mm ²	12AWG/4 mm ²	10AWG/6 mm ²	8AWG/10 mm ²	
Net weight	0.07kg	0.08kg	0.08kg	0.15kg	0.09kg	0.10kg	0.10kg	0.18kg	0.29kg	