

PWM Solar Charge Controller with built-in LED Driver

LandStar LPLI series



The LandStar LPLI series lithium battery solar charge controller combines the solar charge controller and LED constant current driver into one unit which is ideal for solar LED Lighting, especially for the application for LED lamp which requires dimmer function. The advanced pulse width modulation charging methods enables the system charging and discharging management to obtain the most radical optimization. Make the system cost reduce, and increase the system flexibility.

Models:

LS101240LPLI, 10A 12V
LS102460LPLI, 10A,12/24V auto work
LS2024100LPLI, 20A,12/24V auto work

Features:

- Apply to lithium battery
- Lithium battery self-activating function
- Lithium battery low temperature protection function
- Load reduce power automatically
- Load power limitation function
- Maximum output efficiency of 96%
- Digital precision constant current control and the control accuracy are less than $\pm 2\%$
- Discharging power calculation and real-time energy statistics recording function
- Multiple load control modes, LED rated current and current percentage can be set
- Load test function for detecting the system
- Parameter setting via mobile APP(android only), RC-02 and SPP-02
- Fully encapsulated PCB, IP68 protection
- Aluminum housing for better cooling



Electronic protections:

- PV reverse polarity protection
- Battery over discharge protection
- Battery reverse polarity protection
- Load open circuit protection
- Battery over voltage protection
- Battery overheating protection
- Load short circuit protection
- Lithium batteries low temperature protection

Load working mode:

- Manual Control
- Light ON/OFF (Default)
- Light ON + Timer
- Time Control
- Intelligent Power Mode



* Free download from website for APP.

Optional accessories:

		
<p>SPP-02 Super parameter programmer</p>	<p>RC-02 Infrared Communication Remoter</p>	<p>IAM (Ir-Android-Micro) For mobile APP</p>

Technical Specifications:

CE RoHS

Model	LS101240LPLI	LS102460LPLI	LS2024100LPLI
Nominal system voltage	12VDC	12/24VDC	
Rated charge current	10A	10A	20A
Max. PV open circuit voltage	30V	50V	50V
Max. output power	40W	30W/12V;60W/24V	50W/12V;100W/24V
Max. output current	2.6A	2.0A	3.3A
Output voltage range	Max. Battery Voltage +2V~60V		
Load open circuit voltage	60V		
Battery type	LiFePO4 / Li-NiCoMn / User		
Boost charging voltage*	LiFePO4:14.6V/Li-NiCoMn:12.51V/User:9-34V		
Float charging voltage*	LiFePO4:14.4V/Li-NiCoMn:12.39V/User:9-34V		
Low voltage reconnect voltage*	LiFePO4:12.0V/Li-NiCoMn:10.8V/User:9-34V		
Low voltage disconnect voltage*	LiFePO4:10.6V/Li-NiCoMn:9.3V/User:9-34V		
Maximum output efficiency	96%		
Output current control accuracy	≤2%		
Self-consumption	≤18mA(12V);≤23mA(24V)		
Communication	IR communication		

* Programmable voltage value by SPP-02 , RC-02 and APP.

Model	LS101240LPLI	LS102460LPLI	LS2024100LPLI
Overall dimension	107x68x20mm		108.5x88x25.6 mm
Power cable	PV/BAT:14AWG(2.5mm ²) LOAD: 18AWG(1.0mm ²)		PV/BAT:14AWG(2.5mm ²) LOAD: 18AWG(1.0mm ²)
Net weight	0.26kg		0.40kg
Enclosure	IP68 (1.5m,72h)		
Working environment temperature	-40°C~+55°C		



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