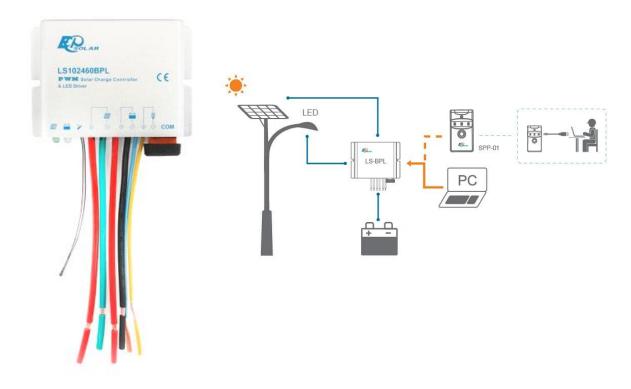


Solar Charge Controller

with integrated LED Driver

LandStar BPL series 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. It can also reduce the system cost and increase the system flexibility.

Fully encapsulated PCB, IP67 design, aluminum case ensures the controller can work in extremely terrible, and increase system operation, reliability and efficiency.



Model overview:



- ★ LS102460BPL 30W/12V, 60W/24V 12/24V auto
- ★ LS152480BPL 40W/12V, 80W/24V 12/24V auto
- ★ LS2024100BPL 50W/12V, 100W/24V 12/24V auto



Features:

- 12V/24V automatic identify or user-defined working voltage.
- Gel, Sealed, Flooded and user-defined battery type option.
- With functions of current power calculation, it is convenient to view charging and discharging energy of each day, month, year and total value.
- Wide input voltage range: DC8.0V—DC32V, compatible with 12V/24V full voltage range.
- ullet Digital precision constant current control and the control accuracy are better than \pm 2%.
- Maximum output efficiency of 95%.
- The rated output current can be adjusted at rated power and current range.
- The max output voltage can reach up to 60V
- Charge control parameter, the load control parameter and the output current value can be set separately.
- Use of standard Modbus communication protocol for TTL232 bus connections, communication protocol compatibility much better.
- Fully encapsulated PCB, IP67 protection.
- Aluminum housing.

Load control mode:

Manual, Light ON/OFF, Light ON+ Timer, Time Control

Electronic protections:

- ◆ PV array Short Circuit
- Overcharge
- Load short circuit
- ◆ PV reverse polarity
- Over discharge
- Load overload
- High voltage transients
- Battery reverse polarity
- Overheating



10A 15A 20A

PWM

LVD/SOC







Gel/Sealed/ Flooded/User

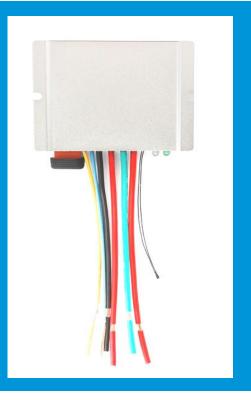
MOSFET

IP67

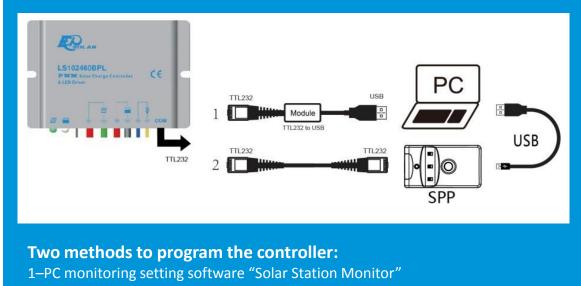










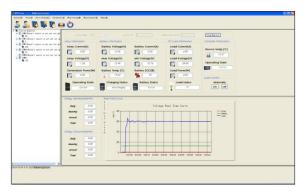


2-Super Parameter Programmer, SPP-01

Optional accessories:



PC monitoring software:





Technical specifications

Model	LS102460BPL	LS152480BPL	LS2024100BPL
Nominal system voltage	12/24V		
Battery terminal voltage	8~32V		
Rated charge current	10A	15A	20A
Rated output power	30W/12V, 60W/24V	40W/12V, 80W/24V	50W/12V, 100W/24V
Rated output current	2.0A	2.6A	3.3A
Max. efficiency	95%		
Output voltage range	Voltage of battery∼60.0V		
Load open circle voltage	60.0V		
Power output adjustment time	<10s		
Self-consumption	≤9.1mA(12V); ≤7.0mA(24V)		
Control accuracy	< 2%		
Temp. compensation coefficient	-3mV/℃/2V(25℃)		

Model	LS102460BPL	LS152480BPL	LS2024100BPL
Overall dimension	108.5x73x25.6mm	108.5x96x25.6mm	108.5x110x25.6mm
Power cable	4mm² (PV/Batt.) 1.0mm² (Load)	6mm ² (PV/Batt.) 1.5mm ² (Load)	6mm ² (PV/Batt.) 1.5mm ² (Load)
Net weight	0.4kg	0.5kg	0.6kg

Environmental parameters		
Working temperature	-35°C to +55°C	
Humidity	≤95% (NC)	
Enclosure	IP67	



BEIJING EPSOLAR TECHNOLOGY CO.,LTD. Add: BLDG #18, CO.PARK ,NO.8 HEYING ROAD,CHANGPING DISTRICT, BEIJING, CHINA

Tel: 010-82894962 / 82894112

Fax: 010-82894882

E-mail: info@epsolarpv.com