

Solar Charge Controller

with integrated LED Driver

LandStar BPLD 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:



- ★ LS102460BPLD 30W/12V, 60W/24V 2.0A
- ★ LS2024100BPLD 50W/12V, 100W/24V 3.3A

Features:

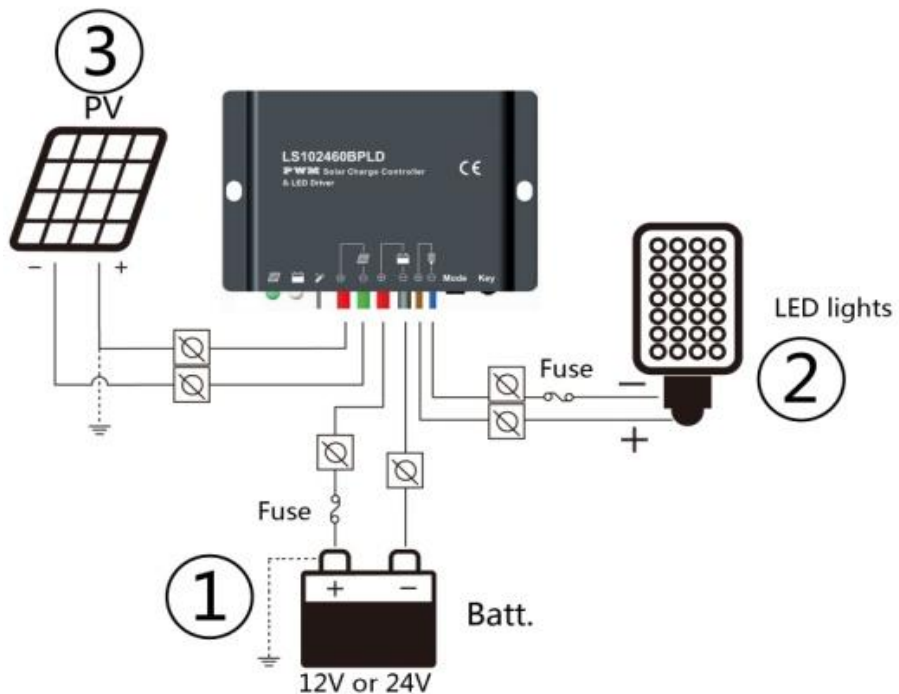
- ◆ Solar charge controller and LED driver in one unit.
- ◆ 12V/24V automatic recognized system voltage.
- ◆ Optional battery type among Gel, Sealed(default) and Flooded.
- ◆ Wide battery voltage range: DC 8.0V ~ DC 32V
- ◆ Digital precision constant current control and the control accuracy better than 10mA.
- ◆ The output current can be adjusted among the rated power and current range.
- ◆ Maximum output efficiency of 95%.
- ◆ Fully encapsulated PCB, IP67 protection.
- ◆ Aluminum housing.

Load control mode:

Manual, Light ON/OFF, Light ON+ Timer, Test

Electronic protections:

- | | |
|---------------------------------------|----------------------------------|
| ◆ PV short circuit protection | ◆ PV reverse polarity protection |
| ◆ Battery over discharge protection | ◆ Battery overcharge protection |
| ◆ Load overload protection | ◆ Load short circuit protection |
| ◆ Battery reverse polarity protection | ◆ Overheating protection |





Technical specifications

Model	LS102460BPLD	LS2024100BPLD
Nominal system voltage	12/24V	
Max. PV input voltage	50V	
Battery terminal voltage	8~32V	
Rated charge current	10A	20A
Rated output power	30W/12V, 60W/24V	50W/12V, 100W/24V
Rated output current	2.0A	3.3A
Max. efficiency	95%	96%
Output voltage range	Voltage of battery+2V~60.0V	
Load open circle voltage	60.0V	
Power output adjustment time	<5s	
Self-consumption	9.4mA/12V; 12.2mA/24V	8mA/12V; 7mA/24V
Control accuracy	30mA	
Temp. compensation coefficient	-3mV/°C/2V (25°C)	

Model	LS102460BPLD	LS2024100BPLD
Overall dimension	108.5x75x25.6mm	108.5x110x25.6mm
Power cable	4mm ² (PV/Batt.) 1.0mm ² (Load)	6mm ² (PV/Batt.) 1.5mm ² (Load)
Net weight	0.36kg	0.5kg

Environmental parameters

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



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