

PWM Solar Charge Controller

LandStar BPD series



LS-BPD series is a waterproof charge controller with automatic lighting control function, ideal for extreme environments with corrosion, dust, moisture etc.

Models:

LS1024BPD 10A, 12/24V auto work

LS2024BPD 20A, 12/24V auto work

Features:

- PWM charging
- Battery type selection : Gel, Sealed and Flooded
- LVD programmable (10.6V - 12V for 12V system)
- Temperature compensation function
- Automatic lighting control
- LED indicators for PV and battery status
- Diversified load control modes option
- Intelligent dual timer function with 1 ~ 14 hours option

- Fully encapsulated PCB, IP67 protection
- Aluminum housing for better cooling
- Application: solar lighting system, solar monitoring system, solar home system



Electronic protections:

- PV short circuit protection
- Battery over voltage protection
- Battery reverse polarity protection
- Load short circuit protection
- Controller overheating protection
- PV reverse polarity protection
- Battery over discharge protection
- Battery overheating protection
- Load overload protection

Load working mode:

- Manual control
- 24H output mode
- Light ON/OFF (Default)
- Test mode
- Light ON+ Timer



Technical Specifications:

CE RoHS

Model	LS1024BPD	LS2024BPD
Nominal system voltage	12/24V DC auto work	12/24V DC auto work
Rated charge current	10A	20A
Rated discharge current	10A	20A
Max. PV open circuit voltage	50V	
Battery type	Sealed (Default) / Gel / Flooded	
Equalize charging voltage*	Sealed: 14.6V, Flooded: 14.8V	
Boost charging voltage*	Gel: 14.2V, Sealed: 14.4V, Flooded: 14.6V	
Float charging voltage*	13.8V	
Low voltage reconnect voltage*	11.6V	
Low voltage disconnect voltage*	11.1V	
Self-consumption	9.4mA/12V;12.2mA/24V	
Temp. compensation coefficient	-3mV/°C/2V	
Grounding	Common positive	
Overall dimension	108.5x64x25.6mm	108.5x83x25.6mm
Power cable	14AWG(2.5mm ²)	12AWG(4mm ²)
Net weight	0.33kg	0.41kg
Enclosure	IP67	
Working environment temperature	-35°C ~ +55°C	

* Technical data for 12V system at 25°C, twice in 24V system.



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