

SOLAR CHARGER CONTROLLER

PWM
LS-BP Series

10A - 20A



The LS-BP series controller is a PWM charge controller that adopts the most advanced digital technique. The control parameter can be programmed via Mobile APP, PC Monitor setting software with RS485 communication interface. The multiple load control modes enable it can be widely used on solar home system, traffic signal, solar street light, solar garden lamp, etc.

Features:

- 12/24VDC automatically identifying system voltage or user-defined working voltage
- 3-Stage intelligent PWM charging : Bulk, Boost/Equalize, Float
- Support 4 charging options: Sealed, Gel, Flooded and user
- Battery temperature compensation function
- Extensive Electronic protection
- Aluminum housing for better cooling
- IP67 waterproof degree

Electronic protections:

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

Load working mode :

- Manual Mode
- Light ON/OFF(Default)
- Light ON + Timer
- Real-time Control

Technical specifications:

MODEL	LS1024BP	LS2024BP
Nominal system voltage	12/24VDC Auto	
Battery input voltage range	9~34VDC	
Max. PV open circuit voltage	50V	
Rated charge current	10A	20A
Rated discharge current	10A	20A
Battery type	Sealed(Default) / Gel / Flooded / User	
Equalize Charging Voltage*	Sealed:14.6V; Flooded:14.8V; User:9-17V	
Boost charging voltage*	Sealed:14.4V; Gel:14.2V; Flooded:14.6V; User:9-17V	
Float charging voltage*	Sealed:13.8V; Gel:13.8V; Flooded:13.8V; User:9-17V	
Low voltage reconnect voltage*	Sealed:12.6V; Gel:12.6V; Flooded:12.6V; User:9-17V	
Low voltage disconnect voltage*	Sealed:11.1V; Gel:11.1V; Flooded:11.1V; User:9-17V	
Self-consumption	≤9mA/12V; ≤7mA/24V	
Charge circuit voltage drop	≤0.3V	
Discharge circuit voltage drop	≤0.2V	
Temperature compensation coefficient	-3mV/°C/2V	
Grounding	Common positive	
Overall dimension	108.5x63x25.6mm	139x75x28mm
Net weight	0.26kg	0.47kg
Power cable	18AWG (1.0mm ²)	18AWG (1.0mm ²)
Enclosure	IP67	
Working environment temperature	-35°C~+55°C	

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