

Solar charge controller

LS-BP series



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.



Models :

- LS1024BP 10A, 12/24V auto work
- LS2024BP 20A, 12/24V auto work

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
- Multiple load control modes
- Extensive Electronic protection
- Monitoring and setting parameter via Mobile APP, PC Monitor setting software with RS485 communication interface.
- Use of standard Modbus communication protocol for RS485 bus connections, communication protocol compatibility much better
- Connecting the IOT(Internet of Things) module and Cloud Server monitoring software to realize remote monitoring of the multi-machine system

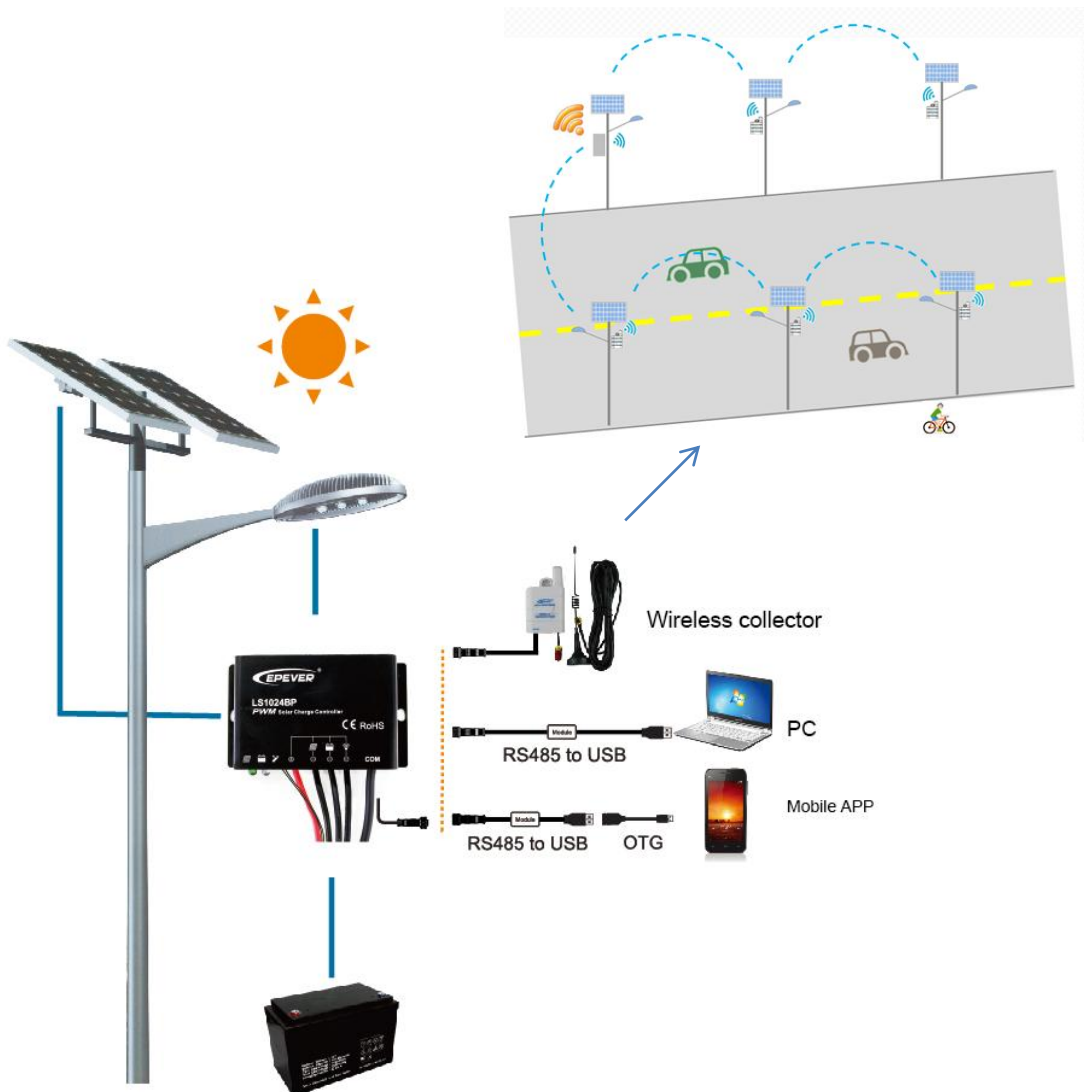
- The RS485 connector can provide power supply
- Aluminum housing for better cooling
- IP67 waterproof degree

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



Optional accessories:



Wireless collector eBox-WL433M-01
Realize remote monitoring of the multi-machine system



CC-USB-RS485-150U-22AWG
PC communication cable(1.5m)

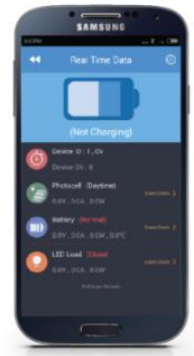


OTG-12CM
OTG cable(12cm)

PC software:



Mobile APP:



* Free download from website for PC software and APP.

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 | |
| Dischargecircuit 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.



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