

PWM Solar Charge Controller



Application:

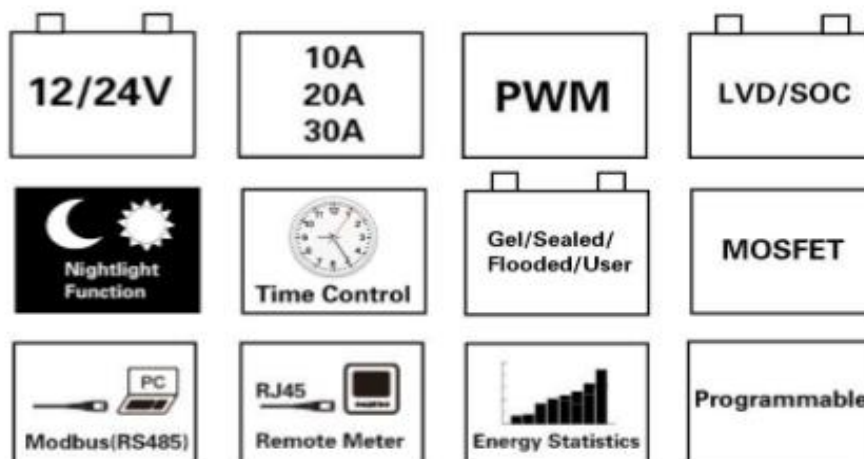
- Solar home system
- Solar lighting system
- Small solar power station
- Solar road signals
- Solar RVs and boats
- Solar surveillance

Features:

- Three system voltage configuration : 12V, 24V or 12V/24V auto work
- High efficiency PWM charging with temperature compensation
- Open standard Modbus communication protocol
- 3 LEDs shows PV charging, battery and load status
- External temperature sensor interface
- RS-485 bus communication
- Software update function

More Powerful Function Via MT50 Or PC

- Diversified load control modes : Manual, Light ON/OFF, Light ON+ Timer, Time Control
- Battery type option: gel, sealed, flooded and user
- Programmable parameters
- LVD or SOC load disconnect function
- Energy statistics function
- Real-time monitor



Electronic protections:

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

Technical specifications:

MODEL	L-SUN1024B	L-SUN2024B	L-SUN3024B
Nominal system voltage	12/24V auto work		
Rated battery current	10A	20A	30A
Rated load current	10A	20A	30A
Max.battery voltage	50V		
Grounding	Common positive		
Self-consumption	8.4mA(12V), 7.8mA(24V)		
Temp. compensation	-3mV / °C / 2V (25°C ref)		
Equalize charging voltage	Sealed: 14.6V, Flooded: 14.8V, User-defined: 9~17V		
Boost charging voltage	Gel: 14.2V, Sealed: 14.4V, Flooded: 14.6V, User-defined: 9~17V		
Float charging voltage	Sealed / Gel / Flooded: 13.8V, User-defined: 9~17V		
Low voltage reconnect voltage	Sealed / Gel / Flooded: 12.6V, User-defined: 9~17V		
Low voltage disconnect voltage	Sealed / Gel / Flooded: 11.1V, User-defined: 9~17V		
Terminals	4mm ²	10mm ²	10mm ²

Environmental	
Storage temp.	-35°C ~+80°C
Working temp.	-35°C ~+55°C
Humidity	≤95% N.C.
Enclosure	IP30

- Technical data for 12V system at 25°C.

