

### Overview

LS-LPLI series is PWM solar charge controller combines solar charge controller and LED constant current driver into one unit. It has multiple load control modes which are ideal for various solar LED Lighting applications, especially when a dimming function is needed.

### Features

- Infrared wireless communication design
- PWM charging mode
- Support lead-acid and lithium-ion batteries
- Lithium battery self-activating function
- Intelligent power derating to ensure 365 days lighting on
- Multiple load control modes (including midnight working mode)
- Automatic load test feature during installation
- Extensive electronic protection
- IP68 protection class (1.5 meters, 72h)



Solar Car



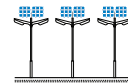
Solar Home



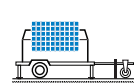
Solar Backpack



Solar Boat



Solar Street Light



Solar Power Generator

# Technical Specifications

Model	LS101260LPLI	LS2024120LPLI
Nominal system voltage	12VDC	12/24VDC
Battery type	Lead-acid (Sealed/Gel/Flooded)/Lithium (LiFePO4/Li(NiCoMn)O2)/User	
Battery input voltage range	9V ~ 16V	9V ~ 32V
Rated charge current	10A	20A
Max. output power	60W	60W/12V 120W/24V
Max. PV open circuit voltage	30V	50V
Max. output Current	4.0A	4.0A
Output voltage range	(Max. Battery Voltage +2V) ~ 60V	
Maximum output efficiency	96%	96%
Output current control accuracy	≤2%	≤2%
Equalization voltage	Sealed:14.6V,Flooded:14.8V,User-defined:9-17V	
Boost voltage	Gel:14.2V,Sealed:14.4V,Flooded:14.6V,User-defined:9-17V	
Float voltage	Gel/Sealed/Flooded:13.8V,User-defined:9-17V	
Low voltage reconnect voltage	Gel/Sealed/Flooded:12.6V,User-defined:9-17V	
Low voltage disconnect voltage	Gel/Sealed/Flooded:11.1V,User-defined:9-17V	
Self-consumption	≤18mA(12V); ≤23mA(24V)	
Enclosure	IP68(1.5m,72h)	
Communication interface	IR	
Operating temperature range	-40°C ~ +55°C	
Dimensions(LxWxH)(mm)	87x63x24.8	108.5x88x25.6
Net Weight	0.21kg	0.40kg