

PWM Solar Charge Controller with built-in LED Driver

LandStar EPLI series



LS-EPLI series combines solar charge controller and LED driver into one unit. It is ideal for solar LED Lighting requiring dimmer function. The control parameter can be programmed by Mobile APP and SPP-02 via infrared(IR) communication.

Models:

- LS101240EPLI, 10A 12V
- LS102460EPLI, 10A,12/24V auto work
- LS2024100EPLI, 20A,12/24V auto work

Features :

- PWM charging
- Battery type selection: Sealed, Gel, Flooded and User(programmable).
- Maximum output efficiency of 96%
- Output current adjustable
- Flexible dimming function(0-100%)
- Digital precision constant current control
- Real-time energy statistics function
- Battery temperature compensation function
- Fully encapsulated PCB, IP68 protection
- Aluminum housing for better cooling
- Easy to check system working status via Mobile APP

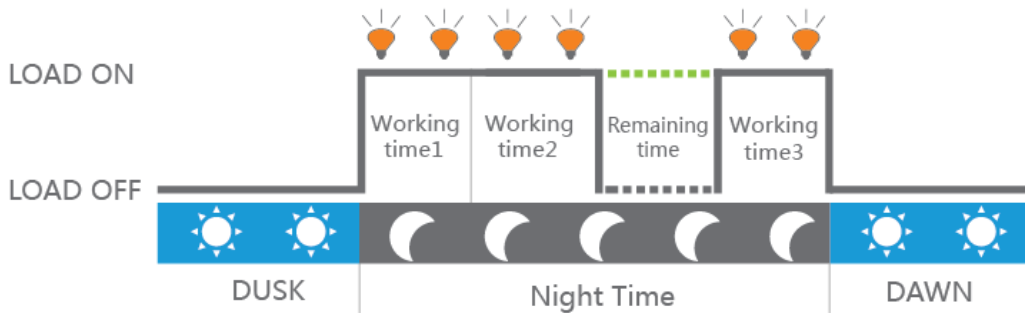
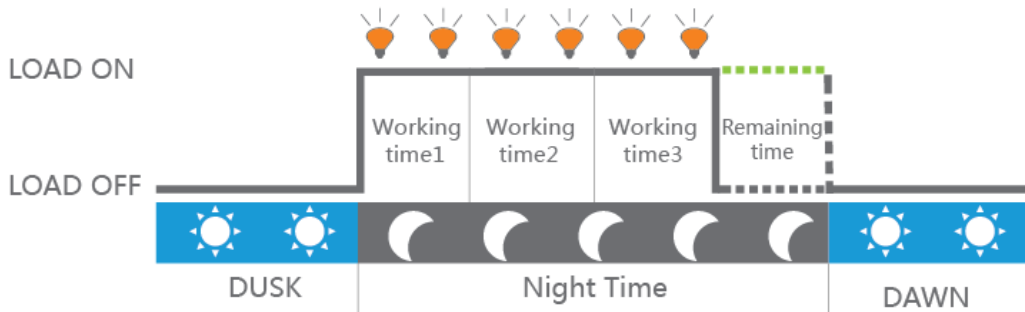


Electronic protections:

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

Load working mode:

- Manual Control
- Light ON/OFF (Default)
- Light ON + Timer
- Time Control





Optional accessories :

Super parameter programmer SPP-02



This method can realize one-key setting operation which is suitable for bulk quantity products setting or applied in the projects.

Mobile APP, IAM (Ir-Android-Micro)



APP software can be free downloaded from the website of <http://www.epsolarpv.com>.

Technical Specifications:

CE RoHS

Model	LS101240EPLI	LS102460EPLI	LS2024100EPLI
Nominal system voltage	12VDC	12/24V DC auto work	
Rated charge current	10A	10A	20A
Max. PV open circuit voltage	30V	50V	50V
Max. output power	40W	30W/12V;60W/24V	50W/12V;100W/24V
Max. output current	2.6A(default 0.35A)	2.0A(default 0.35A)	3.3A(default 0.35A)
Battery type	Sealed (Default) / Gel / Flooded		
Equalize charging voltage*	Sealed: 14.6V, Flooded: 14.8V, User: 9~17V		
Boost charging voltage*	Gel: 14.2V, Sealed: 14.4V, Flooded: 14.6V, User: 9~17V		
Float charging voltage*	Gel /Sealed /Flooded: 13.8V, User: 9~17V		
Low voltage reconnect voltage*	Gel /Sealed /Flooded: 12.6V, User: 9~17V		
Low voltage disconnect voltage*	Gel /Sealed /Flooded: 11.1V, User: 9~17V		
Output voltage range	(Max. Battery Voltage +2V)~60V		
Load open circuit voltage	60V		
Maximum output efficiency	96%		
Output current control accuracy	≤30mA		
Communication distance of IR	≤6m		
Self-consumption	≤9.1mA(12V);≤7.0mA(24V)		
Temp. compensation coefficient	-3mV/°C/2V		
Overall dimension	107x68x20mm		108.5x88x25.6 mm
Power cable	PV/BAT:14AWG(2.5mm ²) LOAD: 18AWG(1.0mm ²)		PV/BAT:14AWG(4mm ²) LOAD: 18AWG(1.0mm ²)
Net weight	0.25kg		0.39kg
Enclosure	IP68 (1.5m,72h)		
Working environment temperature	-35°C~+55°C		

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