

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

PWM



DIMMING

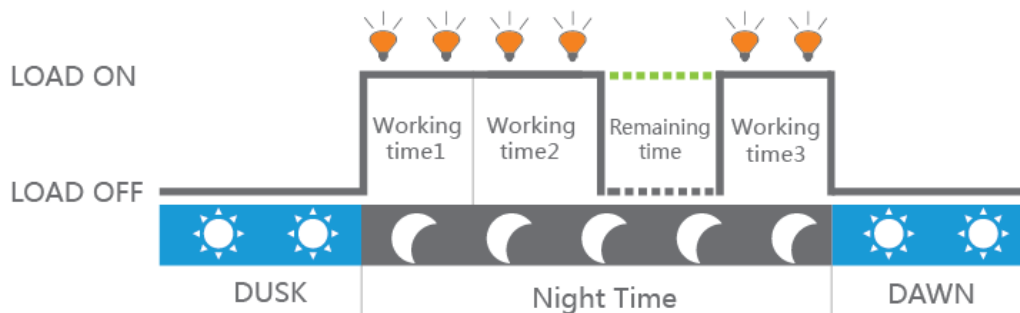
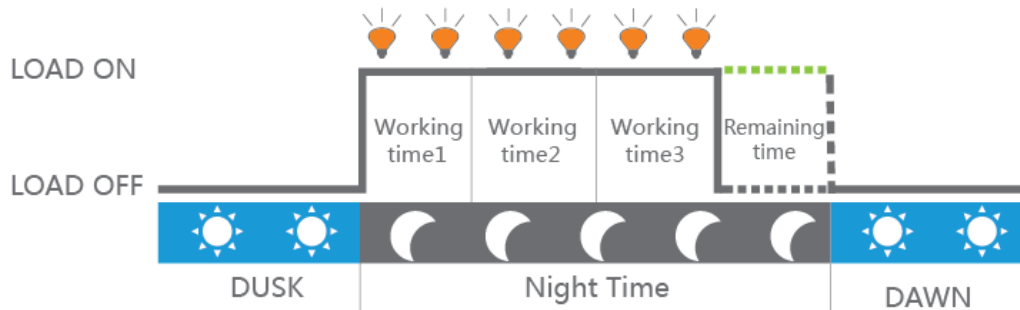
IP68

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





* Free download from website for APP.

Optional accessories:

		
SPP-02 Super parameter programmer	RC-01 Infrared Communication Remoter	IAM (Ir-Android-Micro) For mobile APP

Technical Specifications:

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(2.5mm ²) LOAD: 18AWG(1.0mm ²)
Net weight	0.23kg		0.39kg
Enclosure	IP68 (1.5m,72h)		
Working environment temperature	-35°C~+55°C		
Humidity range	Relative humidity ≤95% (N.C.)		

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

* Programmable voltage value by SPP-02 , RC-01 and APP.



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