

NSC2024100EP

PWM Solar Charge Controller with built-in LED Driver



LandStar EPLI series

NSC2024100EP combines solar charge controller and LED driver into one unit. It is ideal for solar LED Lighting require dimmer function. The control parameter can be programmed by Mobile APP and SPP-02 via infrared(IR) communication.

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 Solar charge controller

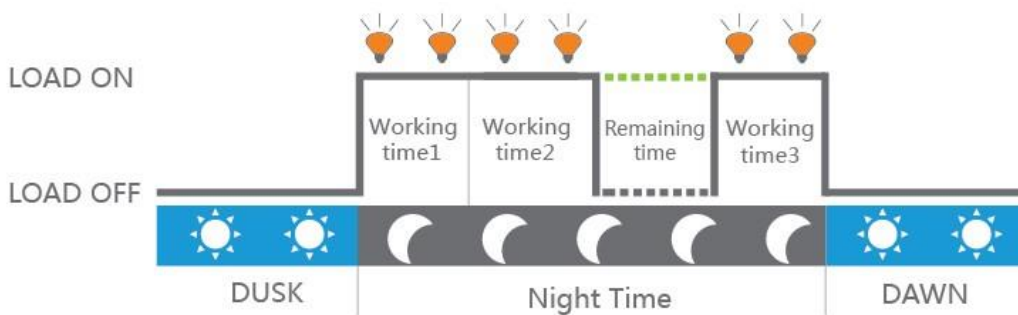
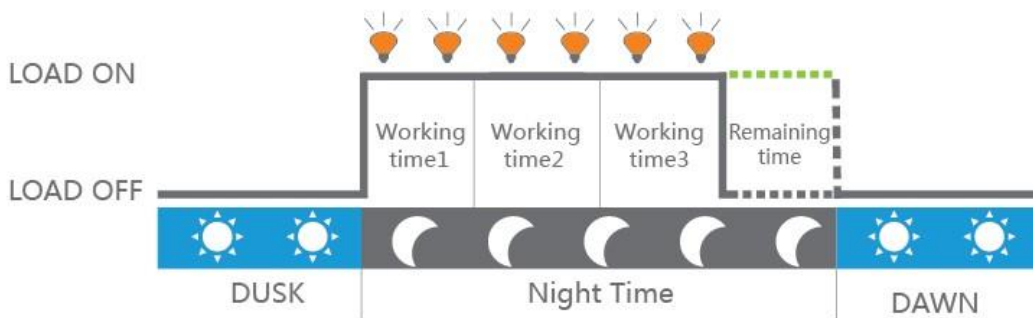


Electronic protections:

- 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





PWM Solar charge controller



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 :

Model	NSC2024100EP
Nominal system voltage	12/24V DC auto work
Rated charge current	20A
Max. PV open circuit voltage	50V
Max. output power	50W/12V;100W/24V
Max. output current	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	108.5x88x25.6 mm
Power cable	PV/BAT:14AWG(4mm ²) LOAD: 18AWG(1.0mm ²)
Net weight	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.

จัดจำหน่ายโดย :



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