

# NSC101240EP

## PWM Solar Charge Controller with built-in LED Driver



### LandStar EPLI series

NSC101240EP 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

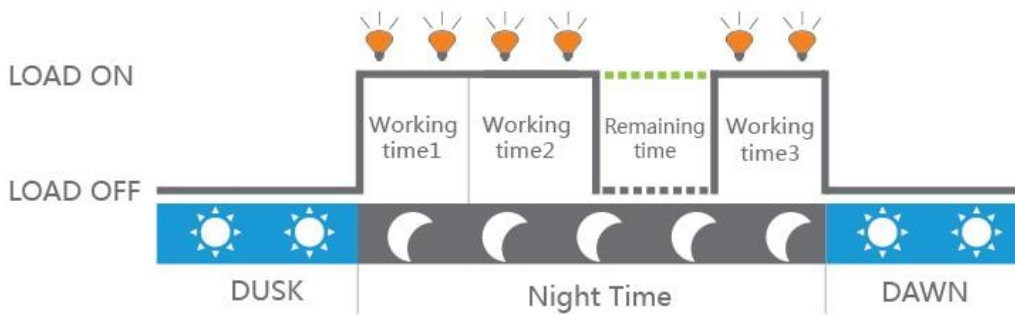
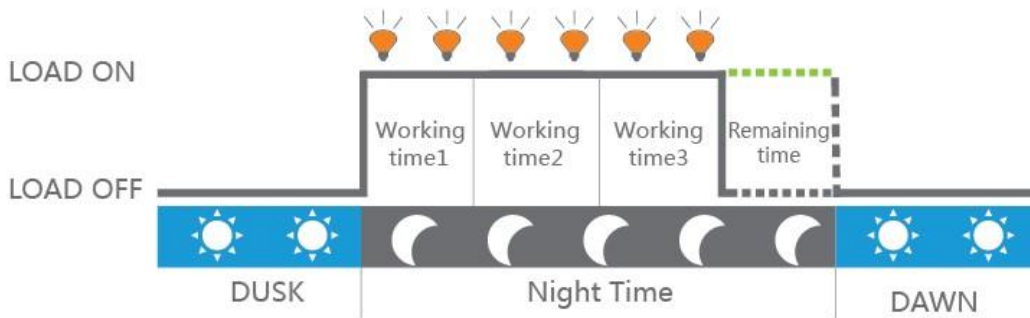


## Electronic protections:

- 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)
- Time Control





# PWM Solar charge controller



Mobile APP

APP



## 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	NSC101240EP
Nominal system voltage	12VDC
Rated charge current	10A
Max. PV open circuit voltage	30V
Max. output power	40W
Max. output current	2.6A(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
Power cable	PV/BAT:14AWG(2.5mm <sup>2</sup> ) LOAD: 18AWG(1.0mm <sup>2</sup> )
Net weight	0.25kg
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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