

PWM Infrared body sensor controller with built in LED Driver

HES Infrared body sensor lighting controllers are water proof PWM type covering Sealed, Gel, and Lithium battery charging. Will be long time using for solar street lighting system and turn on/off the light automatically based on human detecting.

It is perfect for a variety of lighting applications like solar street lights, advertise boards, traffic etc. 6timers and 0-100% dimming programmed for each time, which meet more lighting needs. IP68 allows device installed in humid environments.

Features

- Equip infrared body sensor
- Robust fully protected case (IP68) , outdoor using Aluminum housing for better cooling
- External temperature sensor
- Soft-start enhanced design for a longer LED lifetime
- PWM LED dimming
- Small size fits in most applications
- Compatible with lead-acid battery and lithium battery charging



Protections

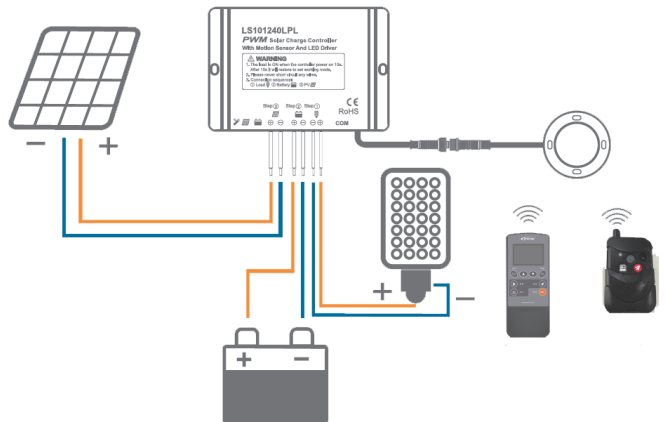
- PV Reverse Polarity
- Battery Reverse Polarity
- Battery Over Voltage
- Battery Over Discharge
- Libattery Low Temperature★ Battery Overheating
- Load Short Circuit
- Load Open Circuit(Load over voltage)

Operation

Programming by remote controller , APP by infrared

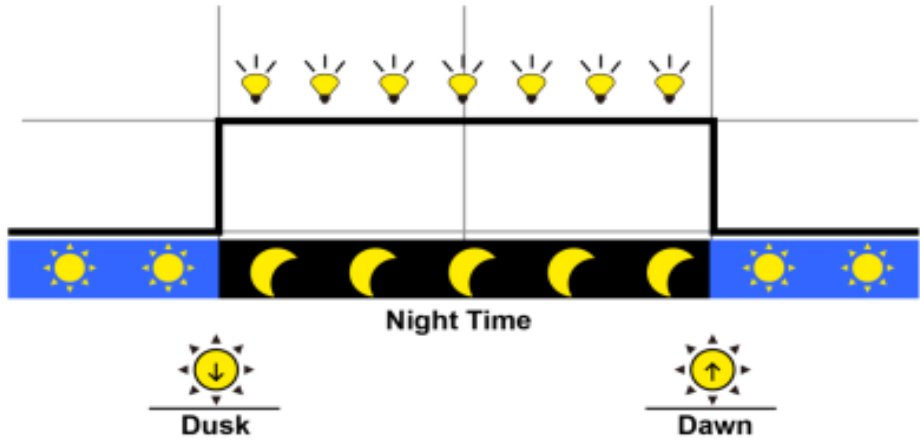
Certifications

- Compliant with European Standards (CE)
- RoHS compliant
- Manufactured according to ISO 9001 and ISO 14001

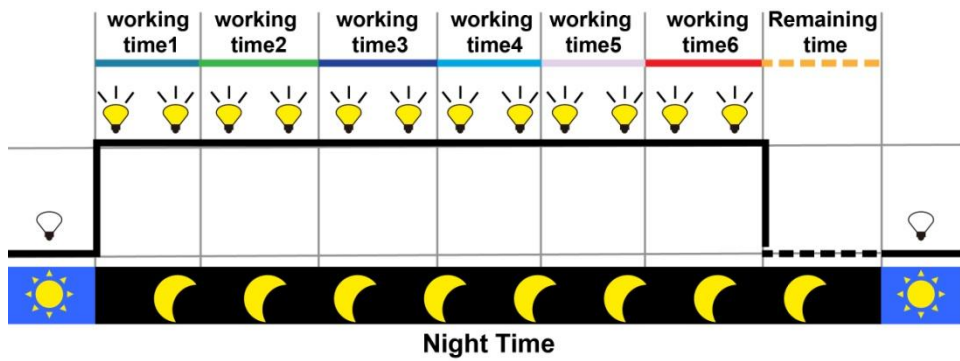


Setting operation

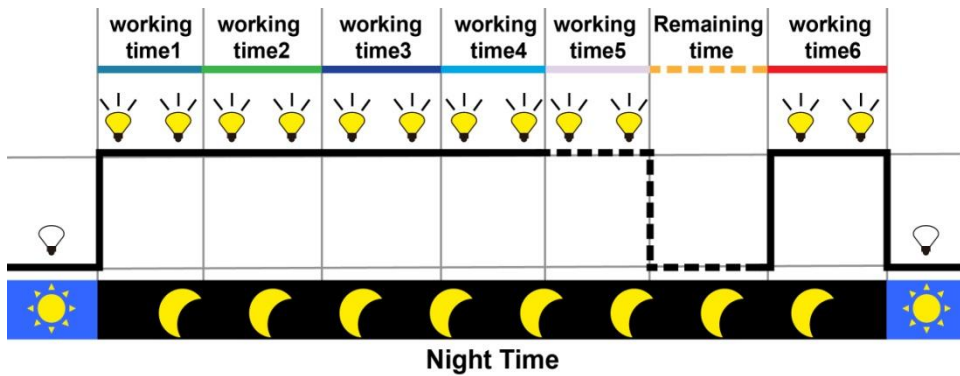
- 1) Manual Mode
- 2) Light ON/OFF(Default)



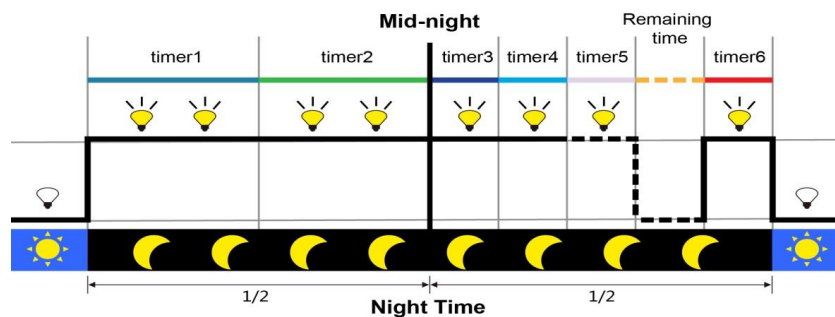
- 3) Light ON + Timer
- Light ON + Timer1



- Light ON + Timer2



- Light ON + Timer3





4) Time Control

Control the load on/off time through setting real-time clock.

5) Intelligent Power Mode

When the battery voltage is lower than “Under Warning Recover Voltage (UWRV adjustable)”, the intelligent power mode is enabled; at this time, the LED current percentage will be automatically reduced in linear with the voltage drop of battery. When the battery voltage is lower than “Under Warning Recover Voltage (WRW adjustable)”, a minimum LED current percentage (default 2%, adjustable) will be output. In addition, when the battery voltage is higher than UWRV, the controller will exit the intelligent power mode.

 NOTE: The load is ON when the controller power on 1seconds. After 1 seconds it will restore to set working mode.

 NOTE: In the mode of Light ON/OFF and Light ON/Timer, the load is turned on after 10Min. delay, the delay time can be set.

Specifications

Models		LS101240LPLIR	LS102460LPLIR
Nominal system voltage		12VDC	12/24VDC◆
Rated charge current		10A	
Max. PV open circuit voltage		30V	50V
Battery input voltage range		9~16V	9~32V
Max. output power		40W	30W/12V; 60W/24V
Max. output Current		2.6A	2.0A
Output voltage range		(Max. Battery Voltage +2V)~60V	
Load open circuit voltage		60V	
Maximum output efficiency		96%	
Output current control accuracy		≤2%	
Battery Type★		Lead-acid battery: Sealed(default)/Gel/Flooded/User Lithium battery:LiFePO4/Li-NiCoMn /User	
Lead-acid battery	Equalization Voltage ▼	Sealed:14.6V; Flooded:14.8V; User:9-17V	
	Boost Voltage ▼	Sealed:14.4V; Gel:14.2V; Flooded:14.6V; User:9-17V	
	Float Voltage ▼	Sealed/Gel/Flooded: 13.8V; User: 9-17V	
	Low Voltage Reconnect Voltage ▼	Sealed/Gel/Flooded: 12.6V; User: 9-17V	
	Low Voltage Disconnect Voltage ▼	Sealed/Gel/Flooded: 11.1V; User: 9-17V	
Lithium battery	Boost Voltage ▼	LiFePO4(4s):14.4V/Li-NiCoMn(3s):12.4V/User:9-17V	
	Float Voltage ▼	LiFePO4(4s):13.6V/Li-NiCoMn(3s):11.8V/User:9-17V	
	Low Voltage Reconnect Voltage ▼	LiFePO4(4s):12.4V/Li-NiCoMn(3s):10.4V/User:9-17V	
	Low Voltage Disconnect Voltage ▼	LiFePO4(4s):11.0V/Li-NiCoMn(3s):9.2V/User:9-17V	

Self-consumption	≤19mA(12V);≤21mA(24V)	
Charge Circuit Voltage Drop	≤0.17V	
Com. way	IR	
Working environment temperature	-40℃ ~ +55℃	
Enclosure	IP68(1.5m,72h)	
Overall dimension	87x58x22.8mm	87x63x24.8mm
Mounting dimension	80mm	
Mounting hole size	Φ4mm	
Power cable	PV/BAT:14AWG/2.5mm ² ; LOAD: 18AWG/1.0mm ²	
Net weight	0.18kg	0.21kg

To find out more visit www.henergysolutions.com

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All specific cations and information are given with good intent, errors are possible and products may be subject to change without notice. Pictures may differ from actual products depending on local market re-quirements and regulations. A solar power system consists of a controller, inverter and load end. Multiple controllers/inverters are shown to represent the wide range that HES has.