

PWM Street lighting ntroller with built in LED Driver

HES lighting controllers are water proof PWM type covering Sealed, Gel, and Lithium battery charging. Will be long time using for solar street lighting system.

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

- 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 Lithium battery charging

Protections

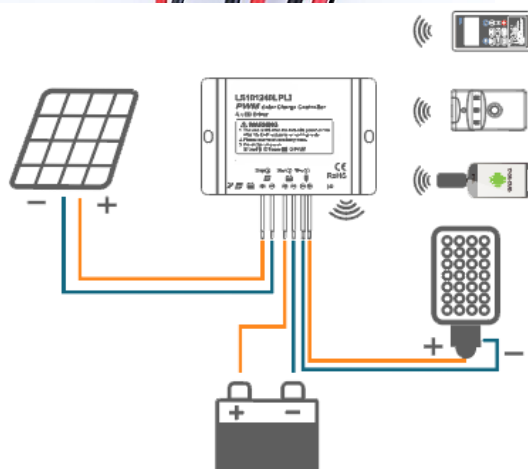
- PV Reverse Polarity
- Battery Reverse Polarity
- Battery Over Voltage
- Battery Over Discharge
- Libattery Low Temperature★ Battery Overheating Load
- Short Circuit Load Open Circuit(Load over voltage)

Operation

Programming by remote controller , APP by infrared

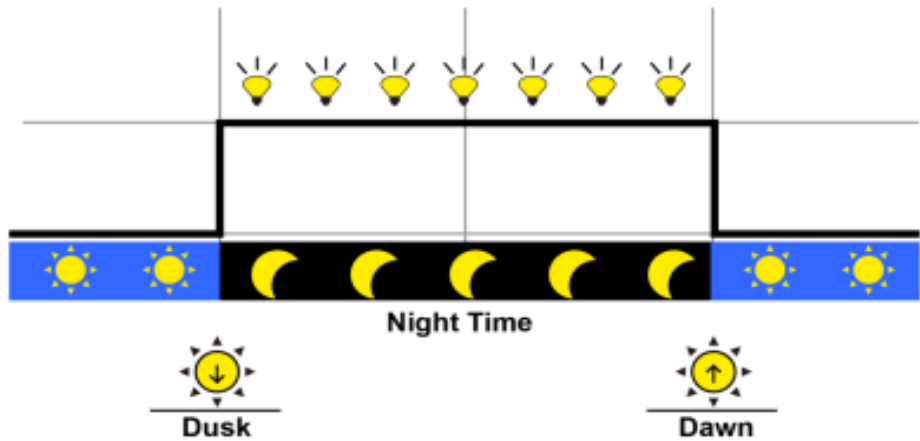
Certifications

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

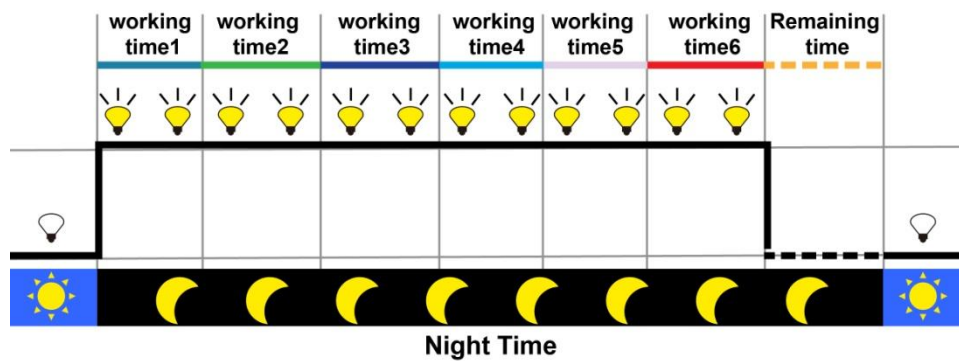


Setting operation

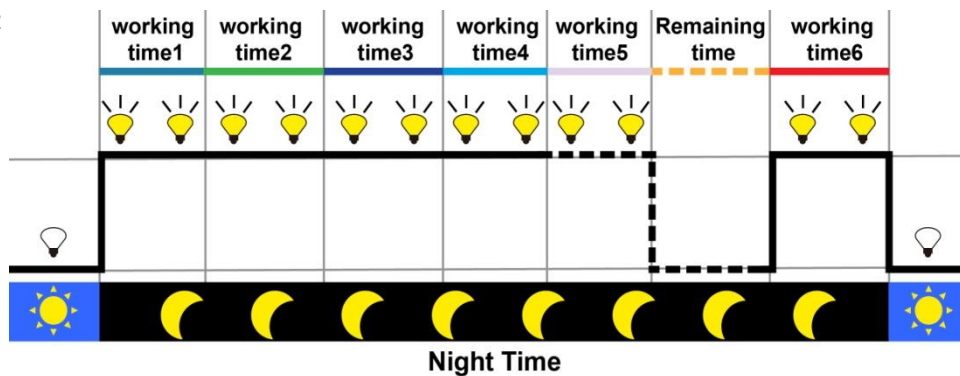
- 1) Manual Mode
- 2) Light ON/OFF(Default)



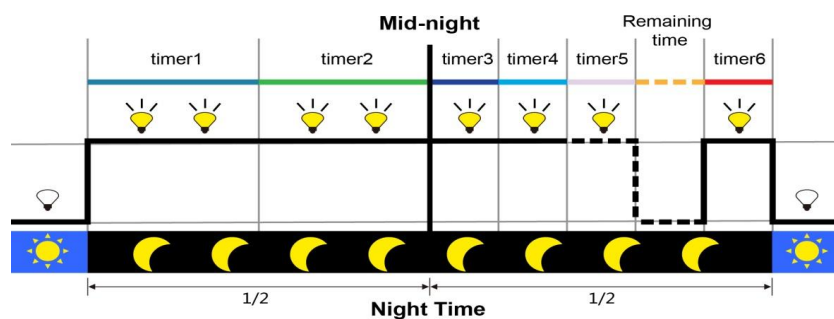
- 3) Light ON + Timer
- Light ON + Timer1



- Light ON + Timer2



- Light ON + Timer3



Specifications

Models		LS101240 LPLI	LS101260 LPLI	LS102460 LPLI	LS2024120LPLI
Nominal system voltage		12VDC		12/24VDC◆	
Rated charge current		10A	10A	10A	20A
Max. PV open circuit voltage		30V		50V	
Battery input voltage range		9~16V		9~32V	
Max. output power		40W	60W	30W/12V 60W/24V	60W/12V;120W/ 24V
Max. output Current		2.6A	4.0A	2.0A	4.0A
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			
	Under Voltage Warning Recover Voltage▼	Sealed/Gel/Flooded: 12.2V;User: 9-17V			
	Under Voltage Warning Voltage▼	Sealed/Gel/Flooded: 12.0V;User: 9-17V			
	Low Voltage Disconnect Voltage▼	Sealed/Gel/Flooded: 11.1V;User: 9-17V			

Lithium battery	Boost Voltage ▼	LiFePO4(4s):14.5V/Li-NiCoMn(3s):12.5V/User:9-17V		
	Low Voltage Reconnect Voltage ▼	LiFePO4(4s):12.8V/Li-NiCoMn(3s):10.5V/User:9-17V		
	Under Voltage Warning Recover Voltage ▼	LiFePO4(4s):12.8V/Li-NiCoMn(3s):12.2V/User:9-17V		
	Under Voltage Warning Voltage ▼	LiFePO4(4s):12.0V/Li-NiCoMn(3s):10.5V/User:9-17V		
	Low Voltage Disconnect Voltage ▼	LiFePO4(4s):11.1V/Li-NiCoMn(3s):9.3V/User:9-17V		
Self-consumption		≤18mA(12V);≤23mA(24V)		
Charge Circuit Voltage Drop		≤0.14V		
Com. way		IR		
Com. distance of IR		≤6m		
Working environment temperature		-40℃~+55℃		
Enclosure		IP68(1.5m,72h)		
Overall dimension(mm)		87x58x22.8	87x63x24.8	108.5x118x25.6
Mounting dimension(mm)		80	80	100.5x76
Mounting hole size(mm)		Φ4		Φ5
Power cable		PV/BAT:14AWG/2.5mm ² LOAD: 18AWG/1.0mm ²		PV/BAT:12AWG/4.0mm ² LOAD:18AWG/1.0mm ²
Net weight		0.18kg	0.21kg	0.40kg

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.