

## **PWM Street lighting controller**

HES lighting controllers are water proof PWM type covering Sealed, Gel 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. 1-13 hours timers programmed, which meet more lighting needs. IP67 allows device installed in humid environments.



Robust fully protected case (IP67) , outdoor using Aluminum housing for better cooling External temperature sensor Soft-start enhanced design for a longer LED lifetime PWM charging Small size fits in most applications  $1\sim 13$  hours timers option



PV reverse polarity Battery overcharge
Battery over discharge Battery reverse polarity
Battery overheating Load overload
Load short circuit



Certifications

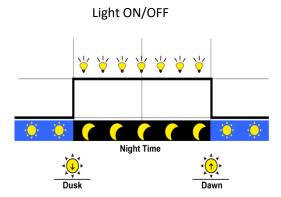
Compliant with European Standards (CE)
RoHS compliant
Manufactured according to ISO 9001 and ISO 14001



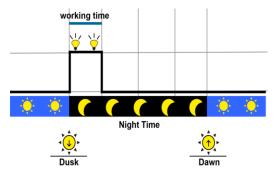


## Setting operation

- 1) Manual Mode: Control the load via the button pressing.
- 2) Light ON/OFF(Default)



3)Light ON + Timer



Note: In the mode of Light ON/OFF and Light ON/Timer, the Load is turned on after 10Min. delay.

Test Mode (Default): Test Mode is as same as Light Control Mode but no delay. The correspondence table of Load Work Mode & LED digital tube value

## The correspondence table of Load Work Mode & LED digital tube value

Value	Working mode	Value	Working mode
0	Light ON/OFF	0.	Light ON + 8 hours
1	Light ON + 1 hours	1.	Light ON + 9 hours
2	Light ON + 2hours	2.	Light ON + 10 hours
3	Light ON + 3hours	3.	Light ON + 11 hours
4	Light ON + 4 hours	4.	Light ON + 12 hours
5	Light ON + 5 hours	5.	Light ON + 13 hours
6	Light ON + 6 hours	6.	Manual Control
7	Light ON + 7 hours	7.	Test Mode



## **Specifications**

Model	LS1012EPD	LS1024EPD	LS2024EPD	
Nominal system voltage	12V DC 12/24V DC auto work			
Rated charge current	10A	10A	20A	
Rated discharge current	10A	10A	20A	
Max. PV input voltage	30V	50V	50V	
Battery type	Sealed			
Equalize charging voltage*	14.8V			
Boost charging voltage*	14.4V			
Float charging voltage*	13.7V			
Low voltage reconnect voltage*	12.6V			
Low voltage disconnect voltage*	11.1 V			
Self-consumption	≤4.58mA(12V); ≤6.01mA(24V)			
Temperature compensation coefficient	-5mV/℃/2V			
Grounding	Common positive			
Overall dimension	108.5×75×25.6mm			
Power cable	12AWG(4.0mm²)	12AWG(4.0mm²)	10AWG(6.0mm²)	
Net weight	0.41kg	0.41kg	0.44kg	
Enclosure	IP67			
Working environment temperature	-35℃~+55℃			