

# HighLight HL-ML



The design of solar street light / courtyard light absorbs energy from the universe, and combines it with high efficiency solar panel, LEDs, and Lithium battery. It adopts advantage technics such as micro-controller, human infrared sensor and so on and combines with integrated design to achieve multiple features such as low power consumption but high brightness, long lifespan and maintenance free, meanwhile with waterproof function and great thermal dissipation. The intelligent control can be reprogrammed from the ground with an infrared before and after install. It is one of our great innovation patented products.



## Key features:

- Low installation and maintenance costs.
- IP67 Rating.
- High performance 1W LEDs with 140lm/w.
- Light dimming engine.
- Led's operating life time over 100,000 hours at maximum output.
- Dedicated optical lens per LED for enhanced spread and uniformity.
- LED strings shunt protection.
- Ideal for solar or energy saving electrical applications.
- Aluminum housing for efficient heat dissipation
- Approved IDA
- LM 79/80
- UL Certified

## Technical specifications

Solar Module Parameters	Type	High-efficiency Monocrystalline Silicon
	Power	Up to 160W
Solar Charge Controller Parameters	Type	MPPT (Maximum Power Point Tracking), infrared solar charging controller
Lithium-ion Battery Parameters	Type	LiFePO4 (lithium-ion ferrous phosphate)
	Capacity	Up to 42AH
LED Light Parameters	Light Source Power	Up to 120W
	Lamp Rated Total Luminous Flux	Up to 16,800lm
	Luminous Efficacy	140lm/w
	CCT (Correlated Color Temperature)	2,700K-6,500K
	Color Rendering Index (CRI)	≥ 75
Control Modes	1. Light control 2. Timing control 3. Microwave control 4. Timing + Microwave control	
Operation profiles	Depend on customer request and solar radiation.	
Lighting Material	Die-casting Aluminum	
Extended Application Option	Wireless Remote controller GPRS Integrated Management System (Remote control and monitoring)	
Product size	light body	Depend On LED power
	solar panel	Depend On Solar Panel wattage
Net weight	light body	Depend On LED power
	solar panel	Depend On Solar Panel Wattage

## Uses and Applications Guide

Mid-size roads	●
Streets lighting	●
Parking lots	●
Boardwalks	●
Farms	●
Public parks	●
Private gardens	●
Access roads	●
Walking paths	●

## Ordering Guide: EXAMPLE: HL-ML-12W-6W-2-27K-4AH-GR-00-WL-S

Model	Solar Panel	LED Power	Distribution type	LED Color Temp	Battery Options	Body Color	Options
HL-ML	12W	6W	2- Type II	27K	4AH	GR- Gray *Other colors are available	00- No motion sensor 01- Motion sensor WL- Wildlife (Amber LED) S-Shield
	18W	8W		30K	6AH		
	20W	10W		40K	8AH		
	30W	15W		50K	10AH		
	35W	18W		65K	15AH		
	40W	20W		A - Amber	18AH		
	45W	25W			21AH		
	60W	30W			24AH		
	80W	40W			25AH		
	90W	50W			36AH		
	110W	60W			42AH		
	120W	80W					
	160W	100W					
		120W					



\*Up on request.

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