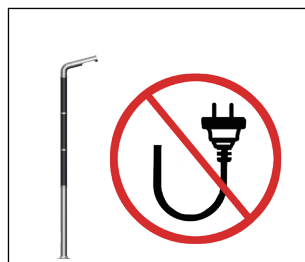
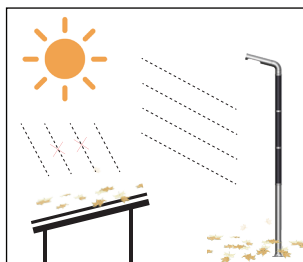


## Product Advantages



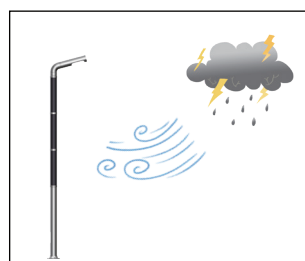
### Off-grid

No cabling or grid connection needed



### Stable Power Supply

Cylindrical shape, free from dust or snow covering. Low maintenance, high reliability.



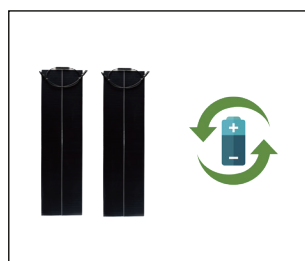
### Weather Proof

Wind-resistance, waterproof



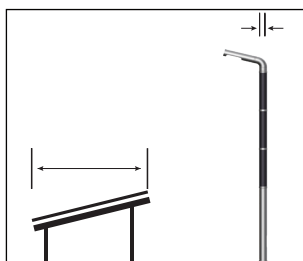
### Smart City Connectivity

Smart city applications can easily be connected. 4G, 5G, Wifi, IoT sensors.



### Modular Design & High Efficiency

Mono-crystalline cell used, modular design, easy installation.



### Integrated To Lamp Pole

Aesthetic appearance, fully integrated to the lamp pole

## Examples



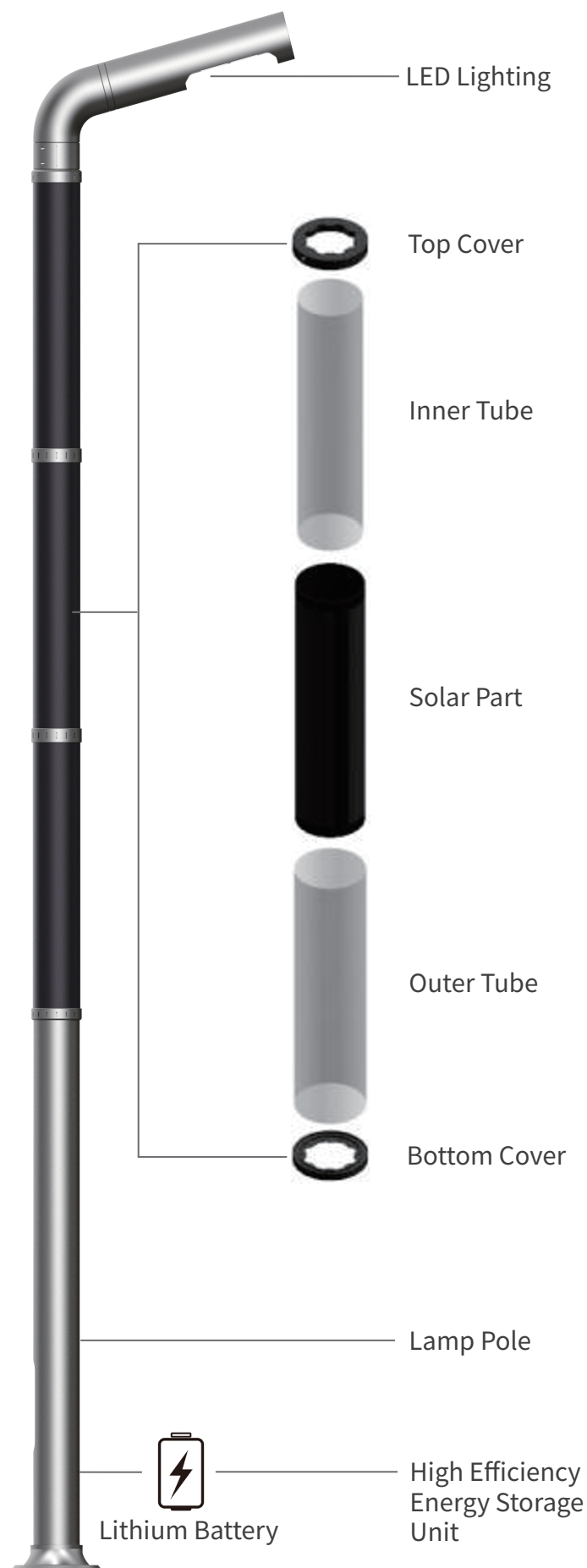
Off-grid






Without tools



Wind-resistance upto 60m/s

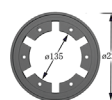


## Parameters

MODEL			
Module type/s	HMN-A-120-01	HMN-A-120-02	HMN-B-120-03
LED Lighting	Up to 20W	Up to 30W	Up to 50W
Battery	12V/ 40AH (At least 3 nights 8h/night)	12V/ 60AH (At least 3 nights 8h/night)	12V/ 100AH (At least 3 nights 8h/night)
	Customized Available		
Color Temperature (LED Working Life)	3000K-5700K (>50000h)		
Controller	MPPT technology		
Surface Treatment	Metal powder electrostatic spraying (plastic spraying)		
Water Proof	≥IP65		
Working Temperature	-40° C~+ 85° C		

## Technical specification of Solar Part

Parameters		
Cell type	Monocrystalline silicon	
Power	150W	120W
Isc	5.42A	6.40A
Voc	39.1V	21.45V
Imp	5.17A	5.68A
Vmp	32.5V	18.15V
Structural		
Size	226*226*1500mm	226*226*1200mm
Weight	22KG	18KG
Structure	Protective Shell + Flexible Solar Module	
Diameter	R226mm,r135mm	
Color	Black	
Operation Temp.	-40° C~+85° C	
Operation Humidity	0% ~80%	



**Excellent Appearance**  
Integrated to lamp pole



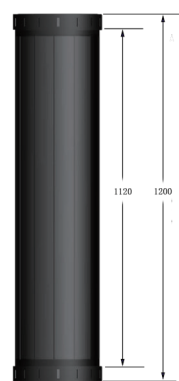
**High Reliability**  
Wide range of working temperature



**Lightweighted**  
Shingling tech., 2/3 lighter than conventional solar panels.



**Modular Design**  
It can be combined and matched arbitrarily and is convenient to install



Apply for Street lamp, landscape light, monitor camera, 5G



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