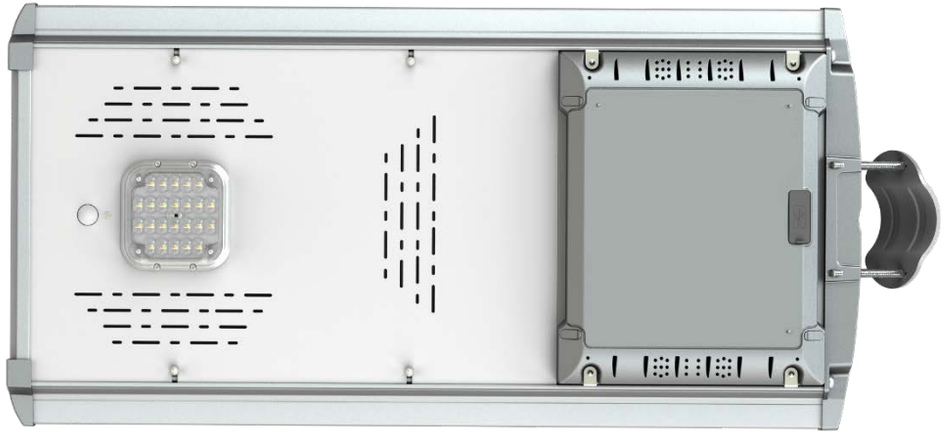
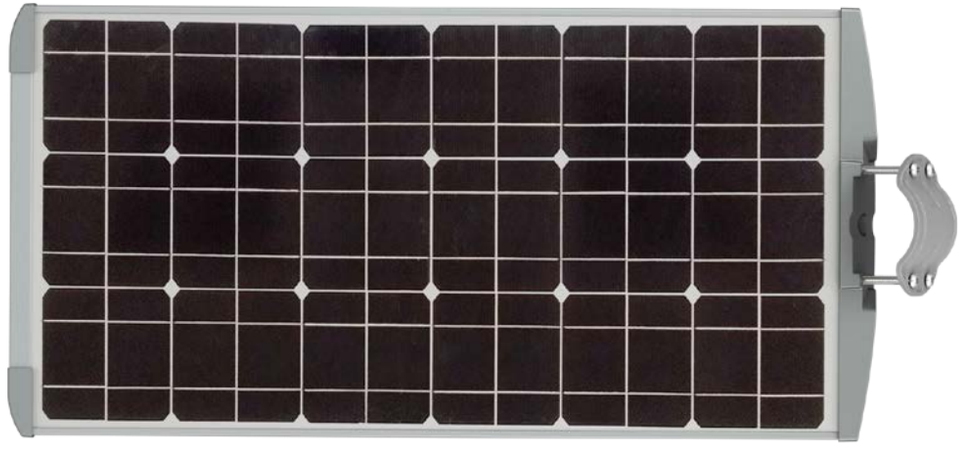
SolarPath™
sun solutions

HLML ELITE

All-in-One
Solar StreetLight

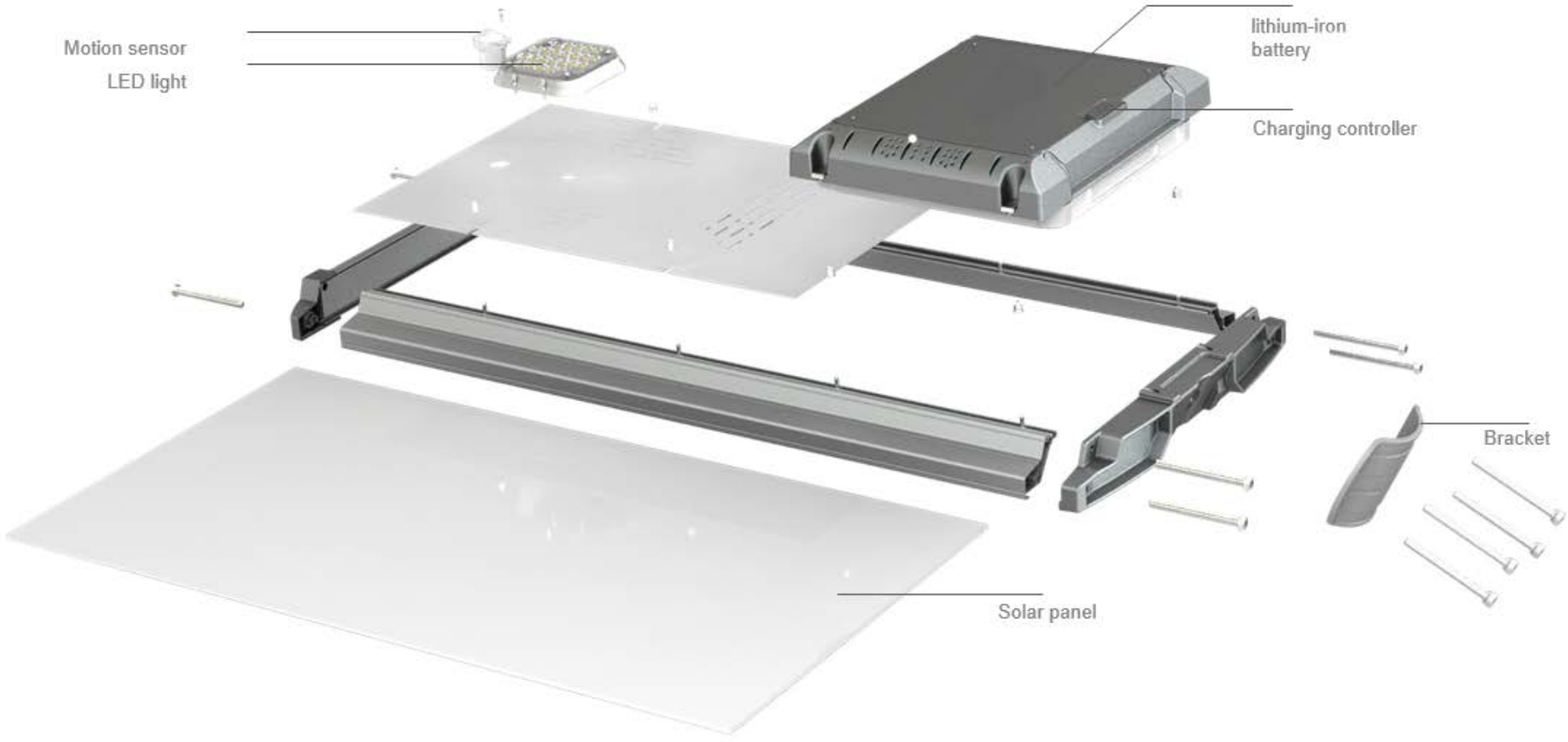




Simple installation, extremely practical

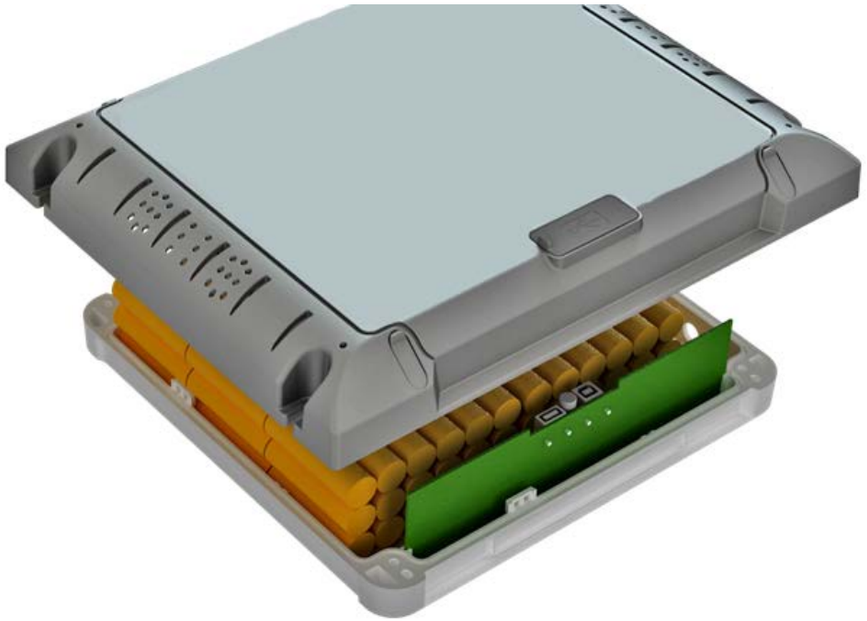
The HLML ELITE standalone solar streetlights are very simple to use, no separate battery pack required and no complicated wiring or settings. All you need to do is to attach it with 4 screws to the post and press the on/off button. That is all.

The ELITE will switch on when the sun sets and switch off when the sun rises. When there is no one around, it will dim itself to improve power efficiency, however, when anyone approaches, it will increase its brightness by a factor of four.



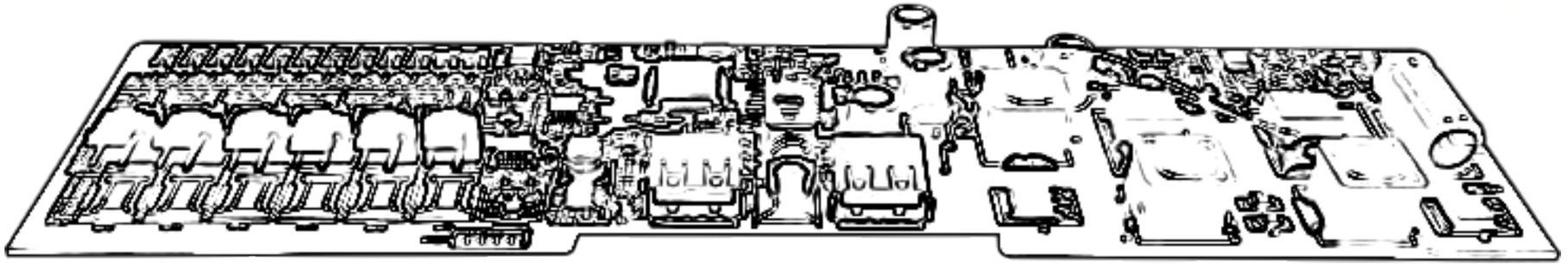
Protected against allweathers

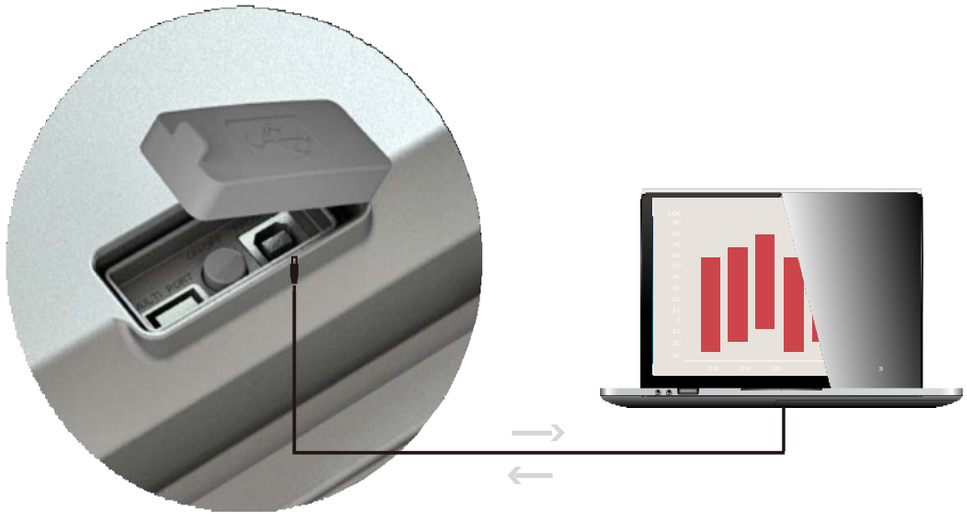
The solar streetlights have to survive extremely cold and hot weather. The modular structure of the HLML ELITE is extremely good at protecting the essential parts of the streetlights. It reaches IP65 protection grade, effectively isolating humidity, dust and heat invasion, making it easy to overcome the challenges of harsh outdoor environments.



Battery determines system stability; Management determines battery's stability

Traditional solar powered streetlights use lead acid batteries that have a very short life cycle and are difficult to maintain, creating massive environmental pollution and a very low ROI. We therefore decided to use Lithium-ion batteries that have 3 times the life cycle, 4 times the discharge ability and are not harmful to the environment in our sealed product. However, Lithium-ion batteries need a proper battery management system to avoid the "barrel effect". ELITE uses an exclusive patented technology battery management program, enabling the life span of battery to last for over 6 years, greatly improving the ROI and at the same time helping to sustain the earth's resources. When the optional exclusive extreme low temperature protection device is installed, ELITE can work at **-40F,** thus making it suitable for alpine regions.





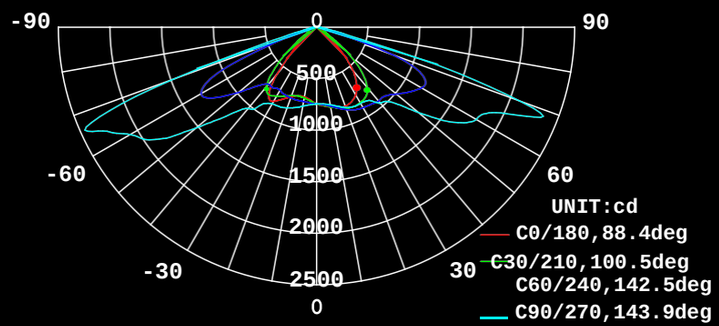
High performance charging controller, provides full protection for the system

The independent researched and developed charging controller generates more power, especially during cloudy & rainy days. It simultaneously has protection for over current, over voltage and overheating. Through the USB interface on the controller, it is able to easily modify its operating mode.

CREE LED ALUMINUM LAMP BASE creates a first-class light source

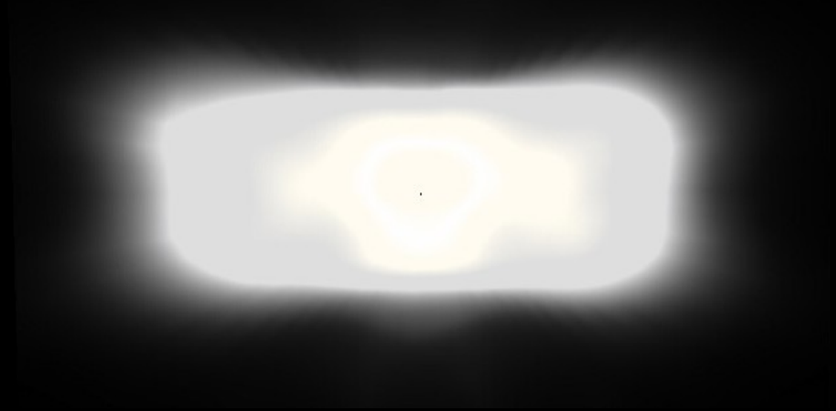
By choosing the CREE 5W LED chips, single lumen value at 130lm/W (@350mA), with the aluminum lamp base and sealed lens, with its excellent heat dissipation, it is as if the LED chip has been placed in a sealed unit. Thus it maintains high brightness levels with very little fading. The sealed lenses are made of strong UV protected PC and are aging and shock resistant; The well optimized light distribution, makes for a more uniform and wider lighting area.

Bat wing light distribution curve



AVERAGE BEAM ANGLE(50%):118.8 DEG

Light intensity diagram

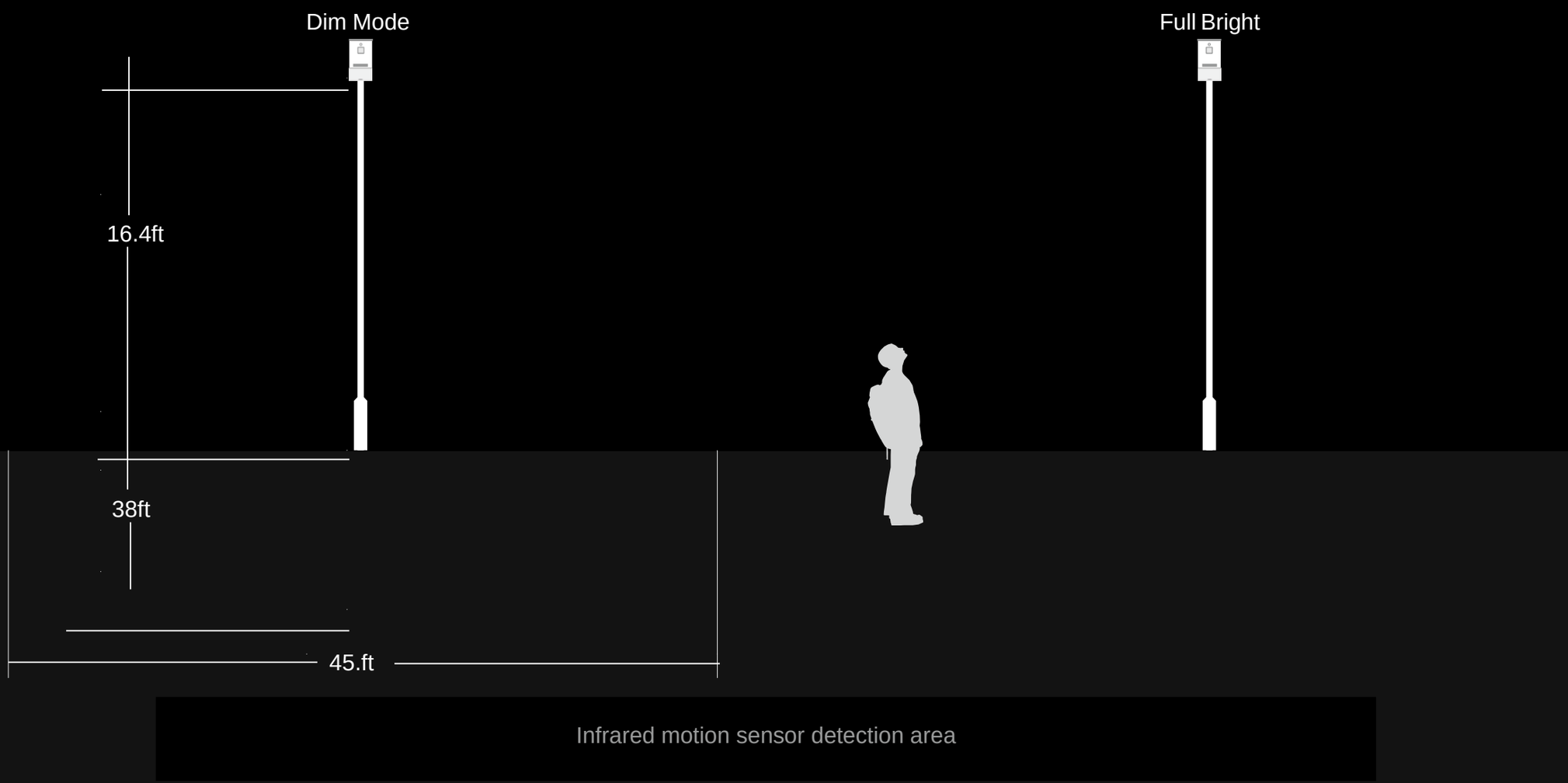


SUPER ALUMINUM FRAME
makes this a tough unit

HLML ELITE uses a super aluminum frame, which is light weight, strong and corrosion resistant, making it able to resist strong typhoons of up to force 12. Stainless steel screws are used as fasteners to protect against any harsh weather.

Motion detection

ML ELITE comes complete with built-in motion detection system that automatically regular the light source from full bright (100%) to dim mode (25%) to increase battery autonomy.

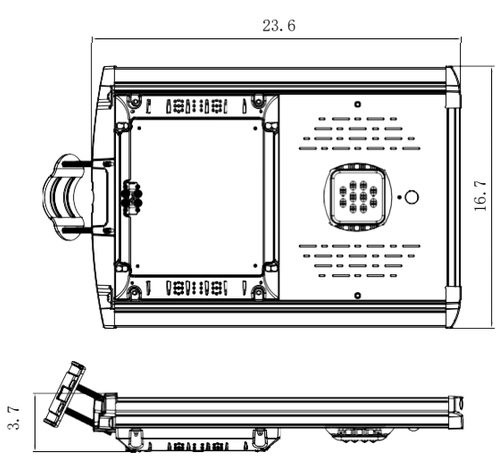


Technical Data

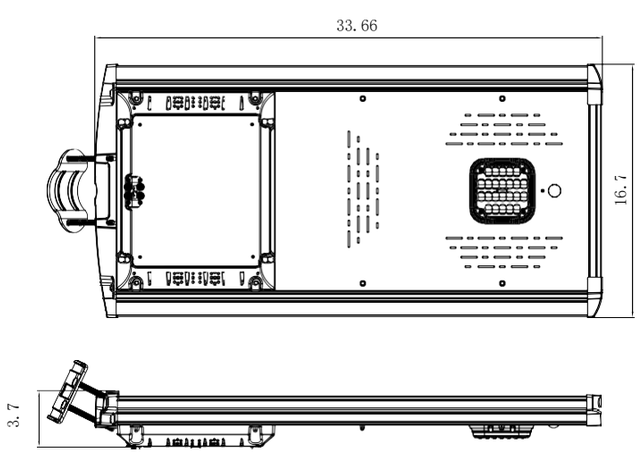
√ : Standard, /: N/A

Model No.		HLML-E-20	HLML-E-40	HLML-E-60	HLML-E-80	HLML-E-100	HLML-E-120	HLML-E-140	HLML-E-160
LED Chip		CREE 5W LED	CREE 5W LED	CREE 5W LED	CREE 5W LED	CREE 5W LED	CREE 5W LED	CREE 5W LED	CREE 5W LED
Qty. of LED Chips (pcs)		10	10	18	24	18	24	24	36
Power of PV Module (W)		35	50	50	50	70	70	100	100
Lithium Battery Capacity (Wh)		192	230	230	308	308	422	422	500
PIR Sensor		√	√	√	√	√	√	√	√
Battery Heating Function		／	√	／	／	√	／	／	／
Dimension of Product (in)		23.6×16.7×3.7	33.6×16.7×3.7	33.6×16.7×3.7	33.6×16.7×3.7	43.8×16.7×3.7	43.8×16.7×3.7	62.5×16.7×3.7	62.5×16.7×3.77
Net Weight of Product (lbs.)		18.7	23.1	23.1	23.1	29.7	29.7	44	44
Dimension of Carton (in)		25.3×10.2×18.8	36.4×10.2×18.8*	36.4×10.2×18.8*	36.4×10.2×18.8*	46.6×5.7×18.8*	46.6×5.7×18.8*	65.3×5.7×18.8*	65.3×5.7×18.8*
Gross Weight of Product (lbs)		46.2*	55.1 *	55.1 *	55.1 *	33*	33*	50.7*	50.7*
Light output (W)		15	15	20	30	20	30	30	50
Optical Distribution		Bat Wing	Bat Wing	Bat Wing	Bat Wing	Bat Wing	Bat Wing	Bat Wing	Bat Wing
Visual Angle (°)		140°× 70°	140°× 70°	140°× 70°	140°× 70°	140°× 70°	140°× 70°	140°× 70°	140°× 70°
Color Temperature (K)		5000	5000	5000	5000	5000	5000	5000	5000
Typical Luminous Flux (lm)		1800	1800	2400	3600	2400	3600	3600	6000
Min. Working Time (Hours)	Full Bright	11.5	14	10.5	9	14	12.5	12.5	9
	Dim Mode	46	56	42	36	56	50	50	36
Light Photosensitivity (lx)		30	30	30	30	30	30	30	30
Charge Temperature (℃		32F~140F	-40F~140F	32F~140F	32F~140F	-40F~140F	32F~140F	32F~140F	32F~140F
Discharge Temperature (℃		-4F~140F	-40F~140F	-4F-140F	-4F-140F	-40F~140F	-4F-140F	-4F-140F	-4F-140F
Storage Temperature (℃		-4F~113F	-4F~113F	-4F~113F	-4F~113F	-4F~113F	-4F~113F	-4F~113F	--4F~113F
Recommended Installation Height (FT.)		9.84~16.4	9.84~16.4	13.1~23	16.4~26.2	13.1~23	16.4~26.2	16.4~2 6.2	19.6~26.2
Recommended Installation Distance (FT.)		39.3~65.6	39.3~65.6	49.2~98.4	82~114.8	49.2~98.4	82~114.8	82~114.8	98.4~131.2
Recommended Diameter of Lamppost (in)		2.9~3.5	2.9~3.5	2.9~3.5	2.9~3.5	2.9~3.5	2.9~3.5	2.5~2.7	2.5~2.7

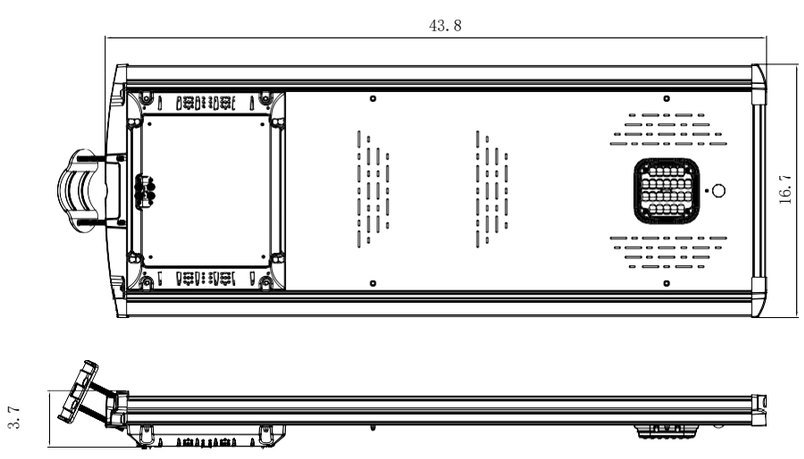
Physical Dimensions (in)



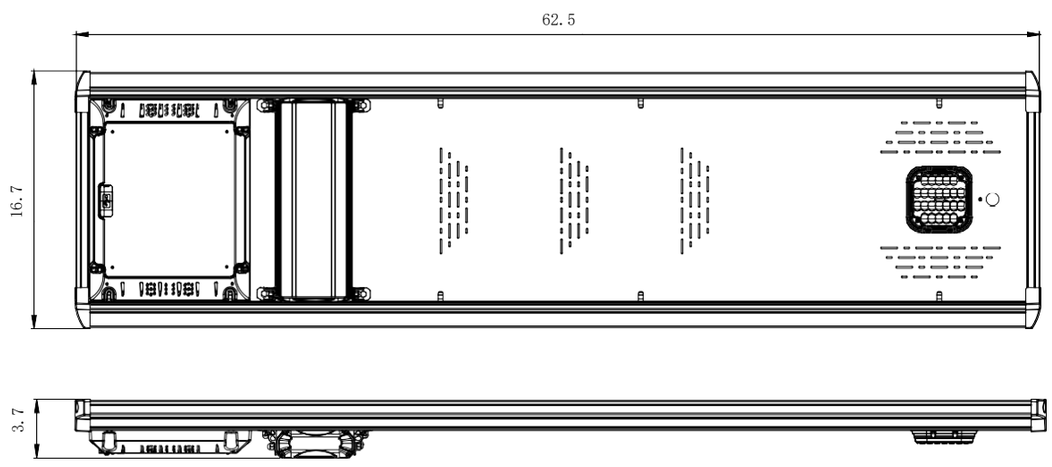
MLE-20



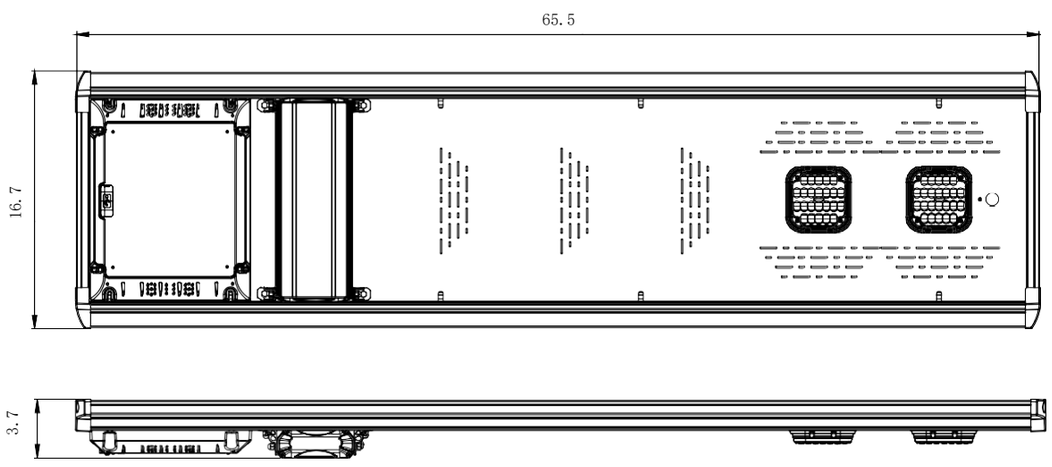
MLE-40/ MLE-60/MLE-80



MLE-100/MLE-120



MLE-140



MLE-160