



SolarGlow LED Solar Street Light

All-in-one full series integrated solar street light



Development Purpose-1

Follow the Carbon Neutrality by 2050: the world's most urgent mission.

The European Union has committed to do so. The United Kingdom, Japan, the Republic of Korea and more than 110 countries have done the same. So, too, has the incoming United States administration. China has pledged to get there before 2060.

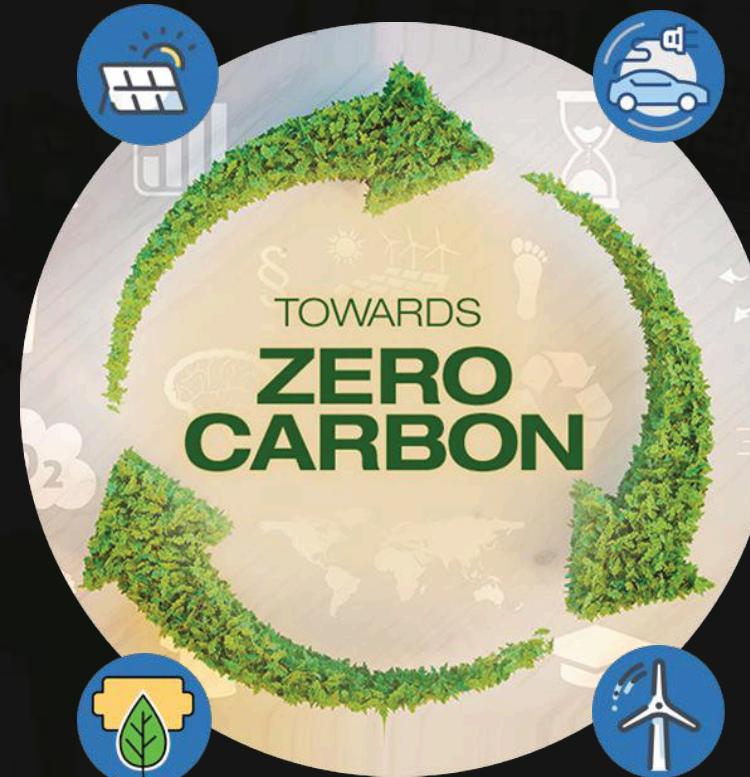
Solar Power



Rechargeable Electric Vehicle



Recyclable Battery



Wind Power



Development Purpose-2

Bring you a concise and full series solar street light without mess.



Easy to
install

Integrated Solar Street Light

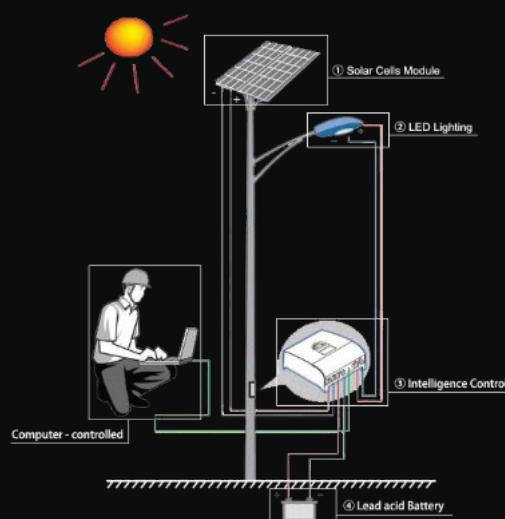
- Simple all-in-one design
- Fast installation
- Low shipping cost

VS



Traditional solar street light+external solar panel

- Complicated structure
- High installation cost
- High shipping cost



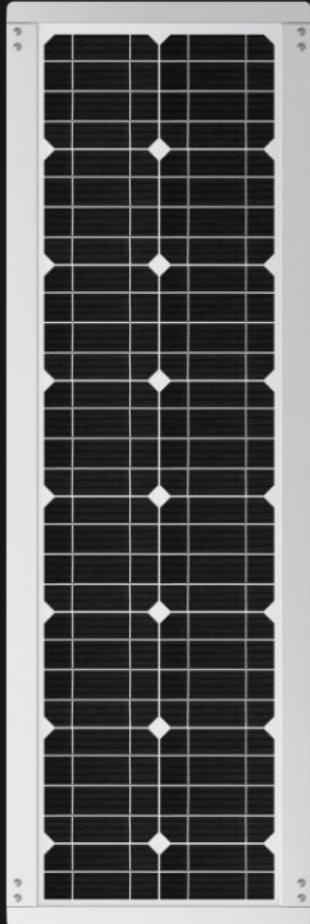
Features

Modular Lens design

Multiple wattage fit for different projects



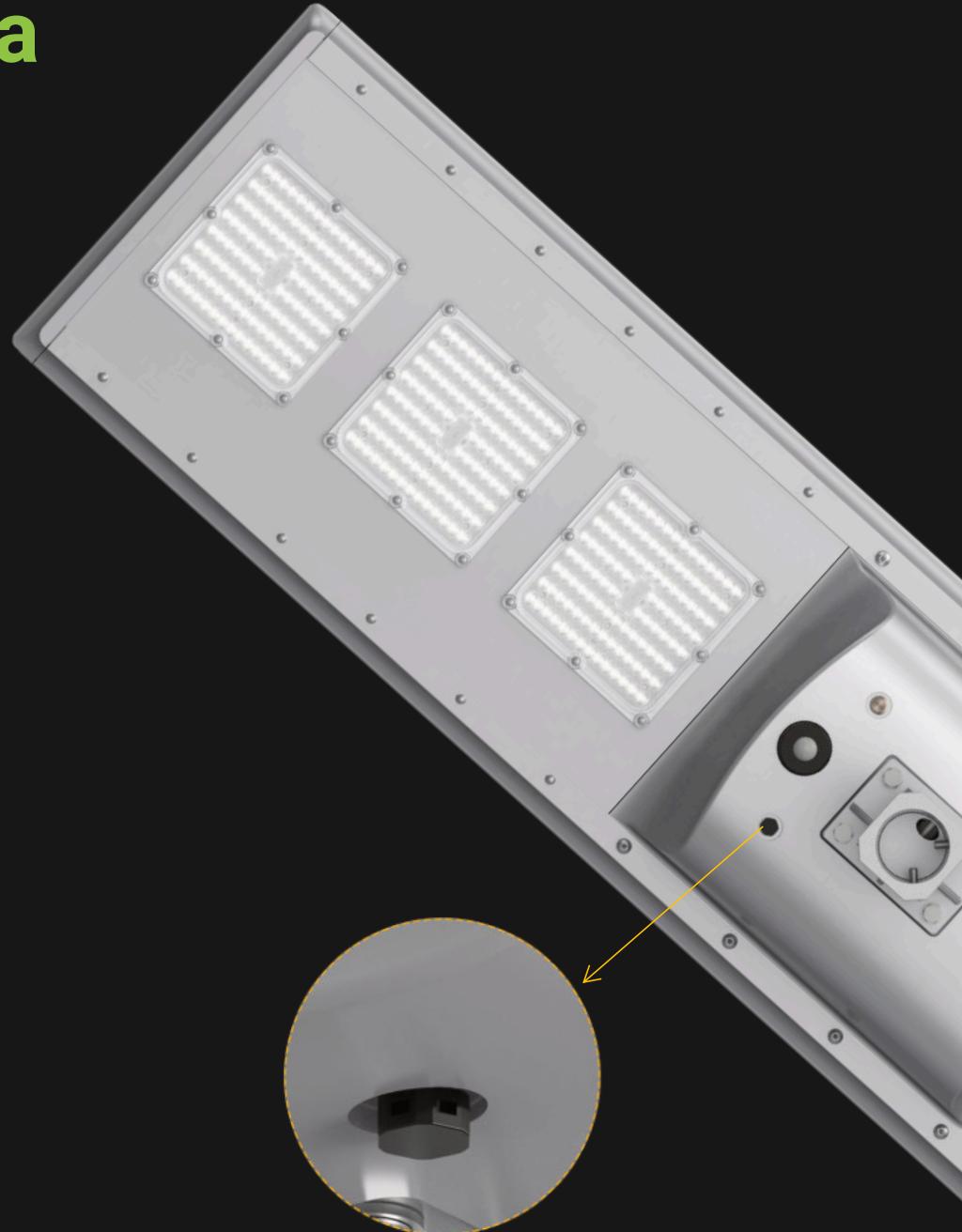
Mono-crystalline photo-voltaic with a higher conversation efficiency



Battery and controller inside the fixture, easier to transport and install. Ours solar street light adopts LiFePO4 battery, high temperature resistance, large current discharge, life cycle more than **2000 times**

With **21%** conversion rate mono-crystalline solar panel, the panel could help store more energy in rainy day, lifespan is much longer and lighting output performance is better.

LiFePO4 Battery, with longer lifetime, charge for 8 hours which can continuous work for **3** days



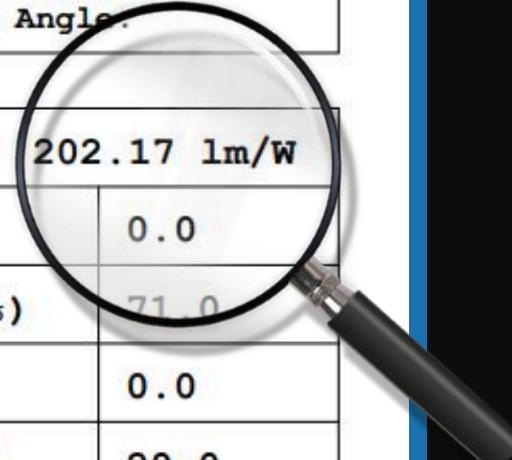
High Efficiency Up To 200lm/w

Ultra powerful from 6,000lm to 20,000lm

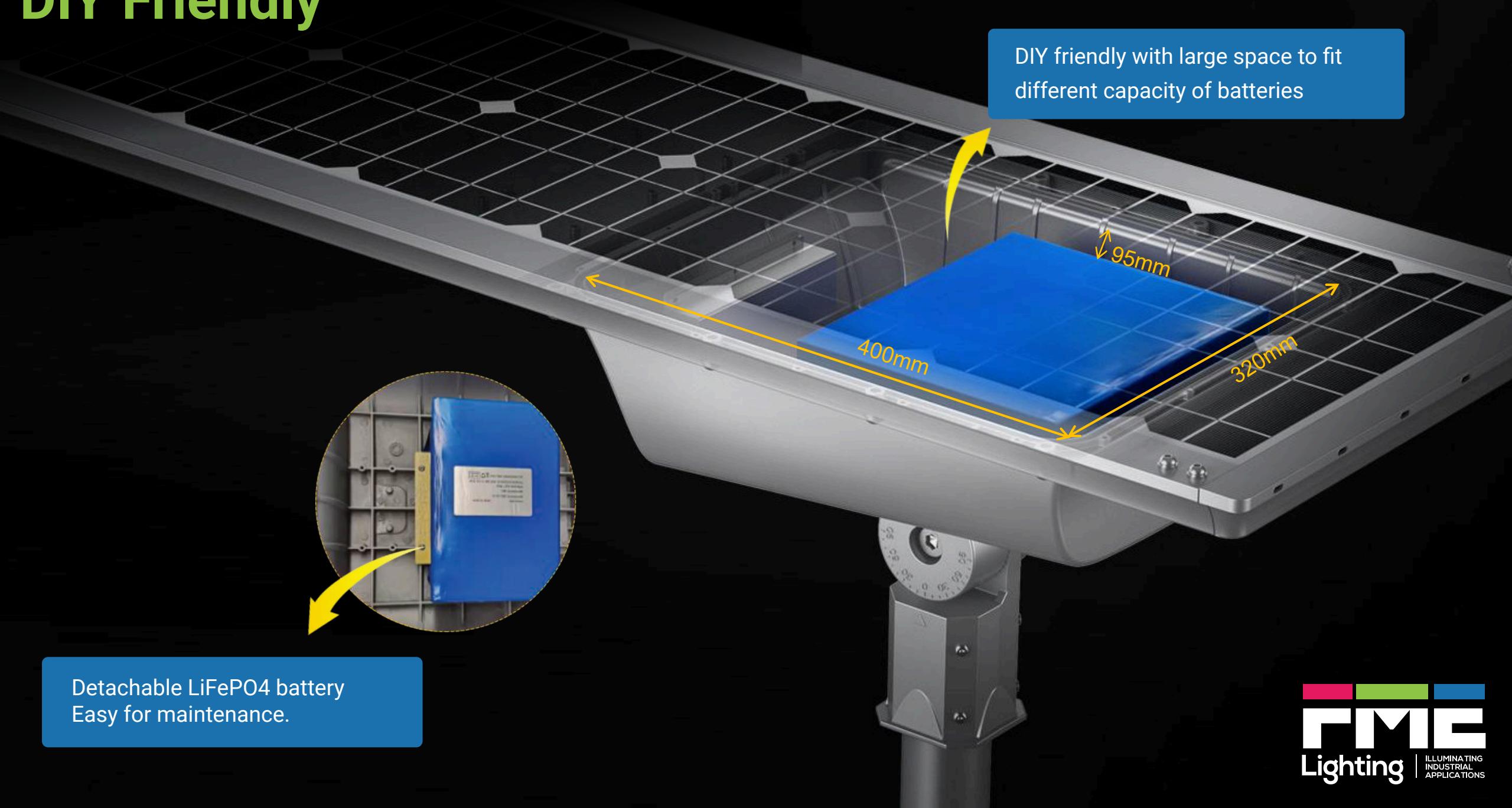
STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:32.82V I:1.7999A P:59.07W PF:1.0000 Freq:0Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:11941.8x1 lm		
NAME: ST50-060-4070-R10801	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

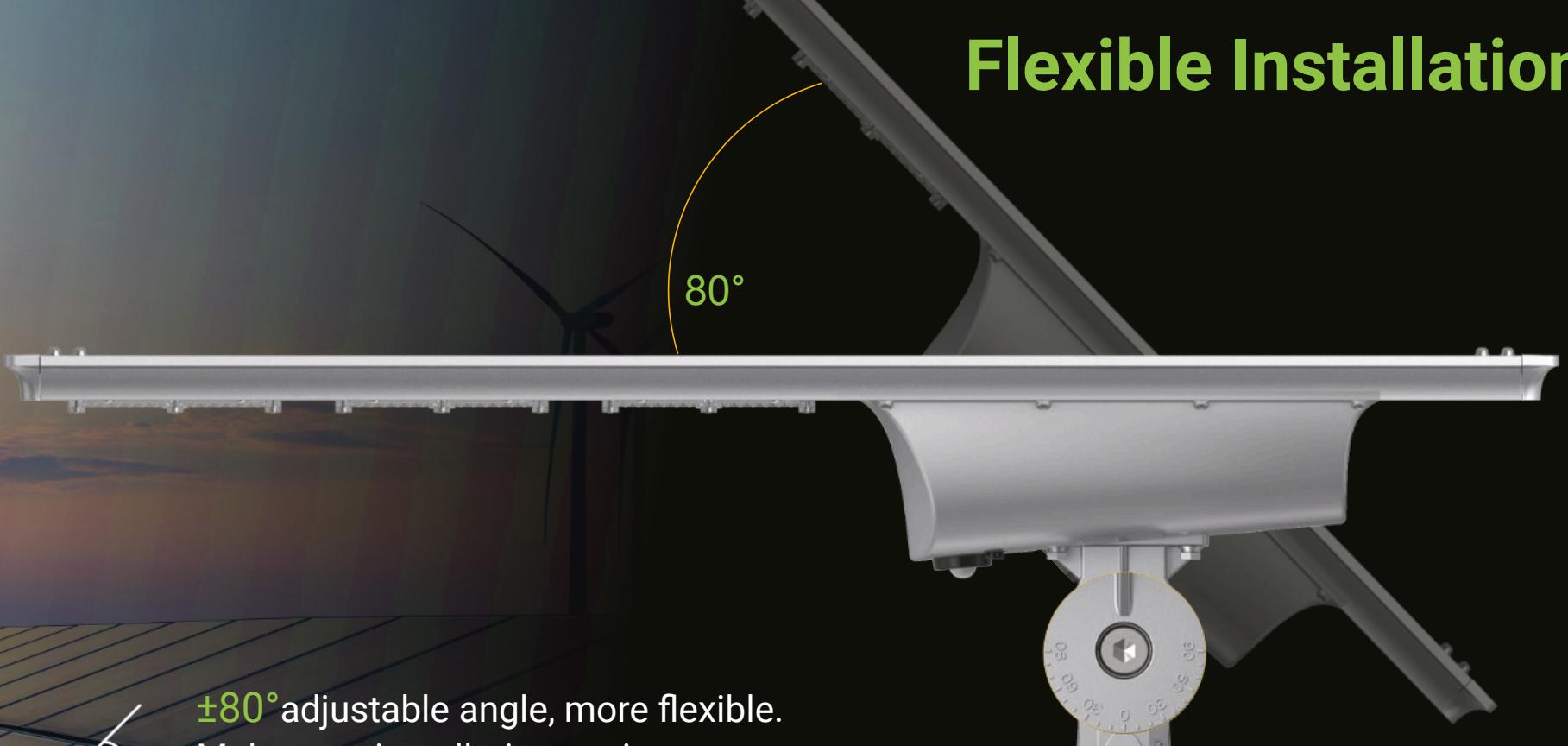
DATA OF LAMP		PHOTOMETRIC DATA		Eff:	202.17 lm/W
MODEL	/	I _{max} (cd)	6858	η street_up (%)	0.0
NOMINAL POWER (W)	/	LOR (%)	100.0	η street_down (%)	71.0
RATED VOLTAGE (V)	/	TOTAL FLUX (lm)	11942	η house_up (%)	0.0
NOMINAL FLUX (lm)	11941.8	MAXIMUM @ (C, γ)	165,67.5	η house_down (%)	29.0
LAMPS INSIDE	1	η up (%)	0.0	76 FLASHAREA (m ²)	
TEST VOLTAGE (V)	/	η down (%)	100.0	SLI	



DIY Friendly



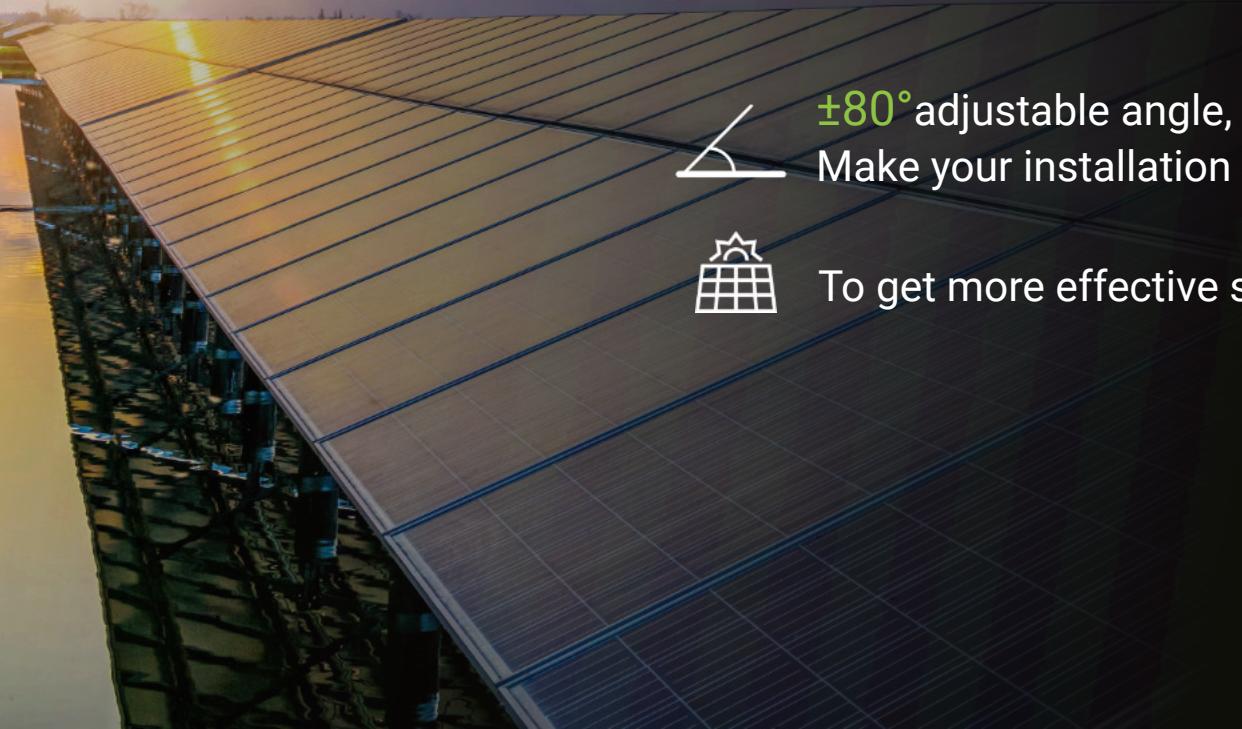
Flexible Installation



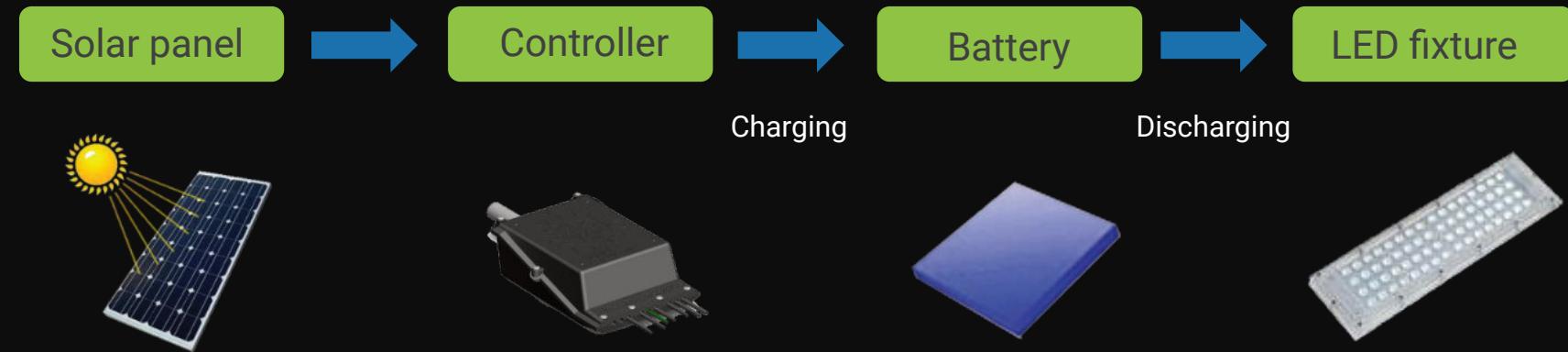
±80° adjustable angle, more flexible.
Make your installation easier.



To get more effective sunshine easily



Intelligent Control



Factory Default Setting:

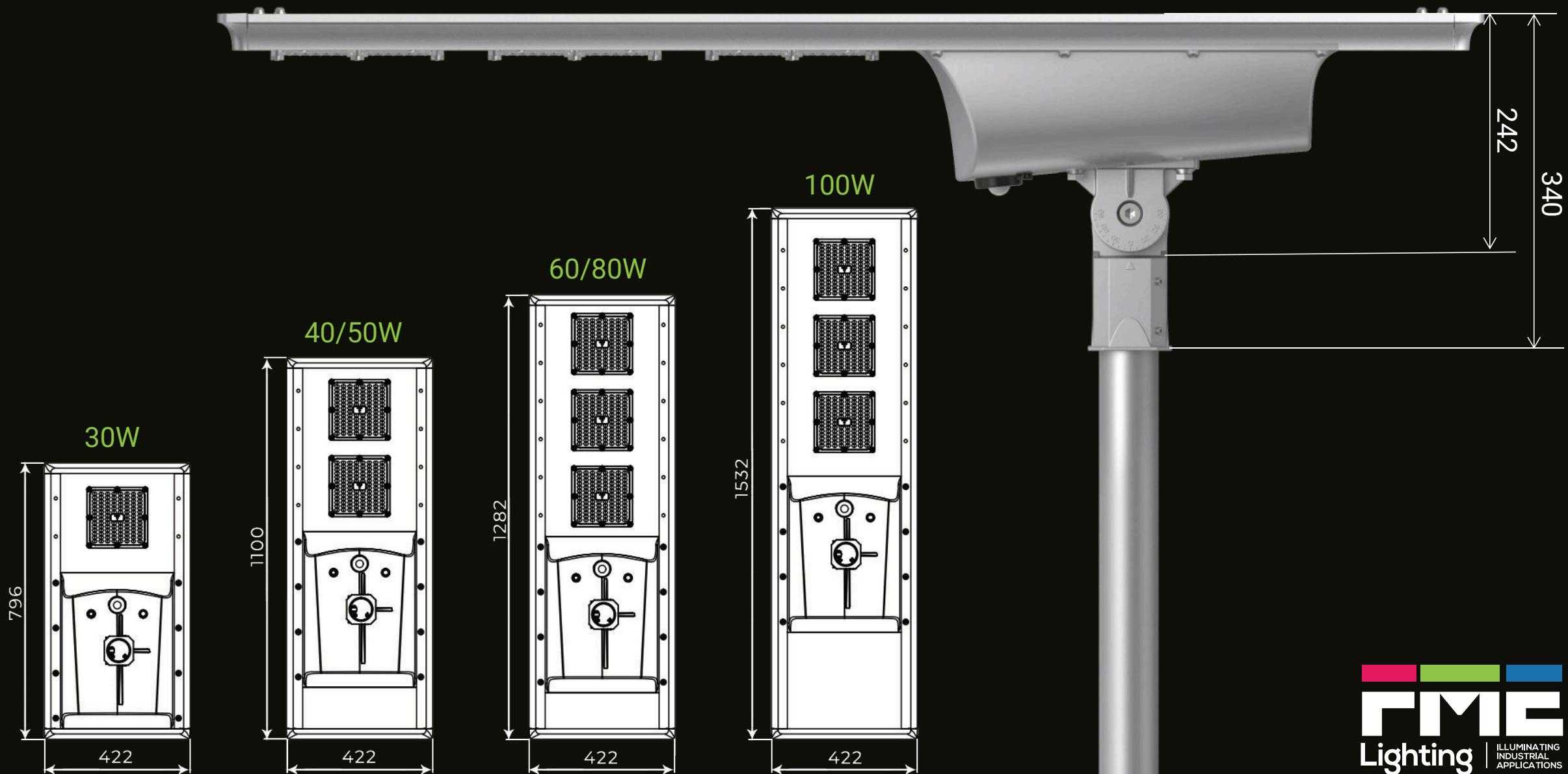


The controller recognizes day and night base on the solar array open circuit voltage, this day/night threshold can be modified according to local light conditions and the solar array used, setting range 3.0~8.0V.

Specification

SPECIFICATION	6,000LM	8,000LM	10,000LM	12,000LM	16,000LM	20,000LM
MODEL	SGL-030	SGL-040	SGL-050	SGL-060	SGL-080	SGL-100
WATTAGE	30w	40w	50w	60w	80w	100w
COLOR TEMP			4000K (3000K, 5000K optional)			
EFFICIENCY			200 LM/W			
OPTIC			Type II Medium			
LED CHIP			SMD 2835 LED chips			
BATTERY	LiFePO4 - 18Ah 12.8V(230Wh)	LiFePO4 - 24Ah 12.8V (307Wh)	LiFePO4 - 30Ah 12.8V (384Wh)	LiFePO4 - 36Ah 12.8V (460Wh)	LiFePO4 -48Ah 12.8V (614Wh)	LiFePO4 - 30/36Ah 25.6V (768/912Wh)
Controller			18PWM/MPPT			
SOLAR PANEL TYPE			Monocrystalline			
CHARGING TIME			>9 hrs			
AUTONOMY			Full power>8 hours, Intelligent mode 3-4 days			
IP RATING			IP65			
OPERATION MODE			Remote control with one-key setting			
CONTROL			Timer dimming/PIR sensor			
INSTALLATION HEIGHT			3-7m, Post Top			
OPERATING TEMPERATURE			0°C~50°C			

Dimensions



Reliability Tests



Dust test



IP65



Loading test

Discharge time test

Test the full discharge time
after the battery is fully charged



Model	Ambient temperature	Discharge duration
ST50-030	0°C	6.9H
	25°C	7.3H
ST50-040	0°C	6.8H
	25°C	7.3H
ST50-050	0°C	6.8H
	25°C	7.3H
ST50-060	0°C	6.8H
	25°C	7.2H
ST50-080	0°C	6.7H
	25°C	6.9H
ST50-100	0°C	6.8H
	25°C	7.7H

Applications

