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SolarGlow LED Solar Street Light

All-in-one full series integrated solar street light

- 200lm/W
- Built-in high conversion rate
- 30-100W
- ±80° Rotatable LED module
- Up to 21% high conversion rate

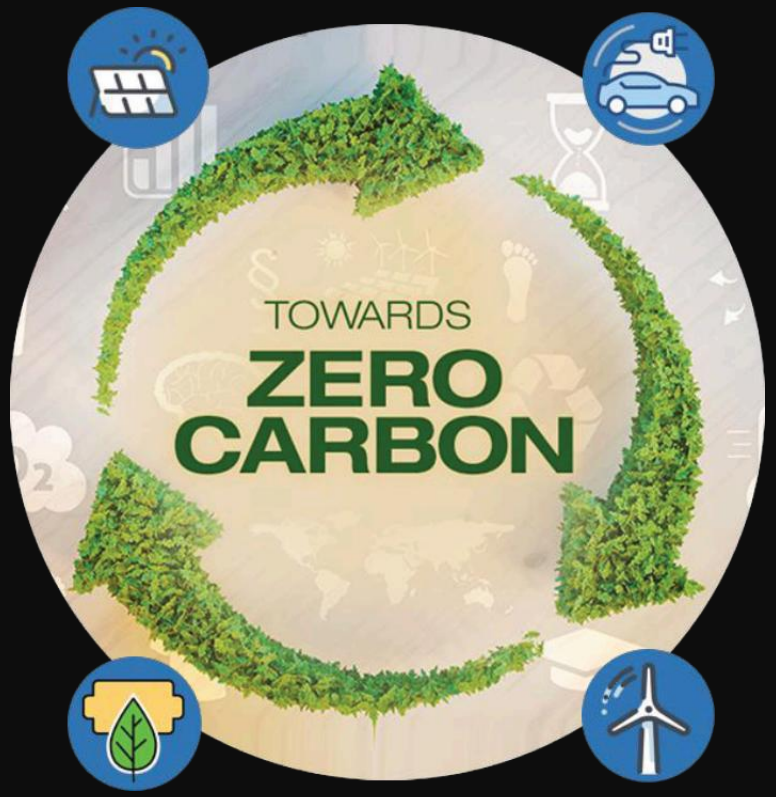
S50

Development Purpose

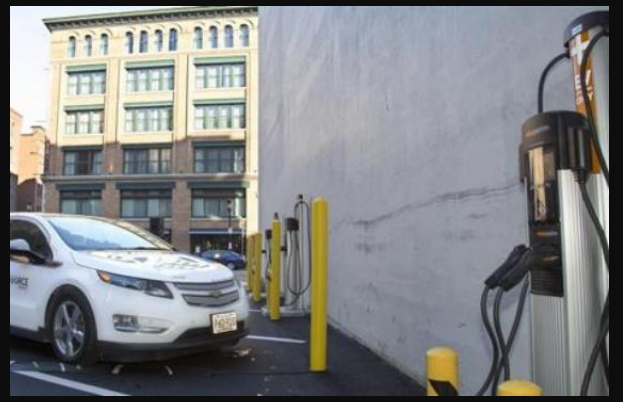
Follow the Carbon Neutrality by 2050: the world's most urgent mission.

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



Recharge able 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

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Features

Modular Lens design

Multiple wattage fit for different projects

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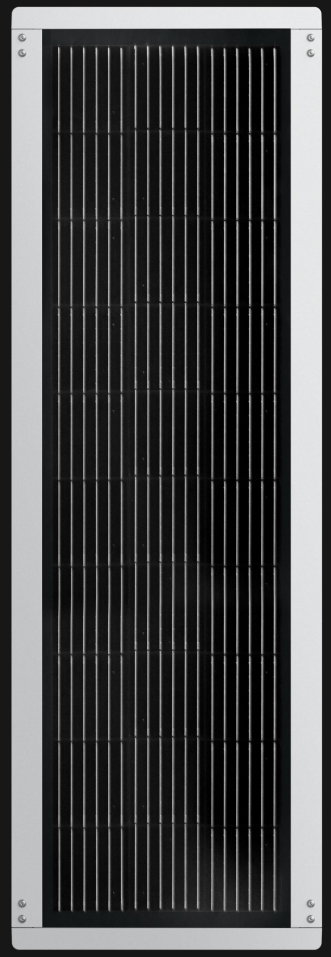
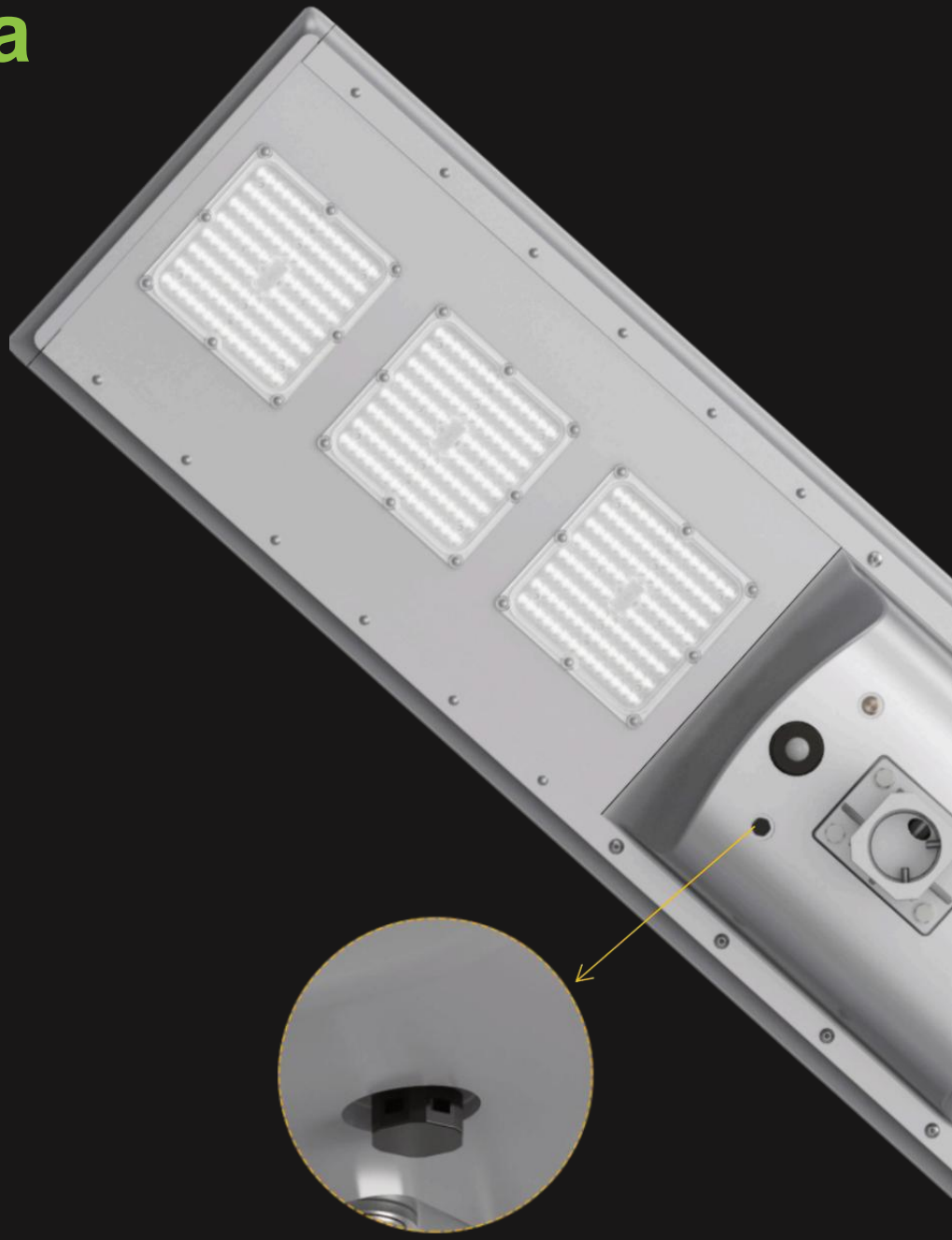
Mono-crystalline photo-voltaic with a higher conversation efficiency



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



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High Efficiency Up To 200lm/w

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

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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: S50 -060-4070-R10801	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 202.17 lm/W			
MODEL	/	Imax(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(m2)	
TEST VOLTAGE(V)	/	η down(%)	100.0	SLI	

DIY Friendly

DIY friendly with large space to fit different capacity of batteries

95mm

400mm

320mm

Detachable LiFePO4 battery
Easy for maintenance.

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Flexible Installation

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

To get more effective sunshine easily

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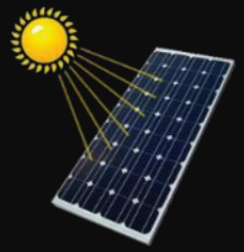
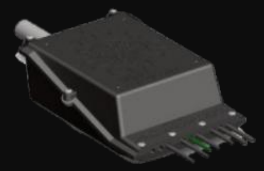
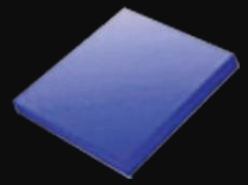
Intelligent Control

Solar panel → Controller → Battery → LED fixture

Charging

Discharging


Factory Default Setting:

With sufficient natural light, the light keeps charging.

The light keeps 100% brightness for 0.5 hour. Then keep 50% brightness when presence is detected in the 1st 4 hours.

The light keeps 10% when there is no presence is detected after 30S hold time in the 1st 4hours.

The light keeps 20% brightness when presence is detected in the 2nd 4 hours.

After 30S hold time, the light dim to 20% brightness when there is no presence detected in the 2nd 4 hours.

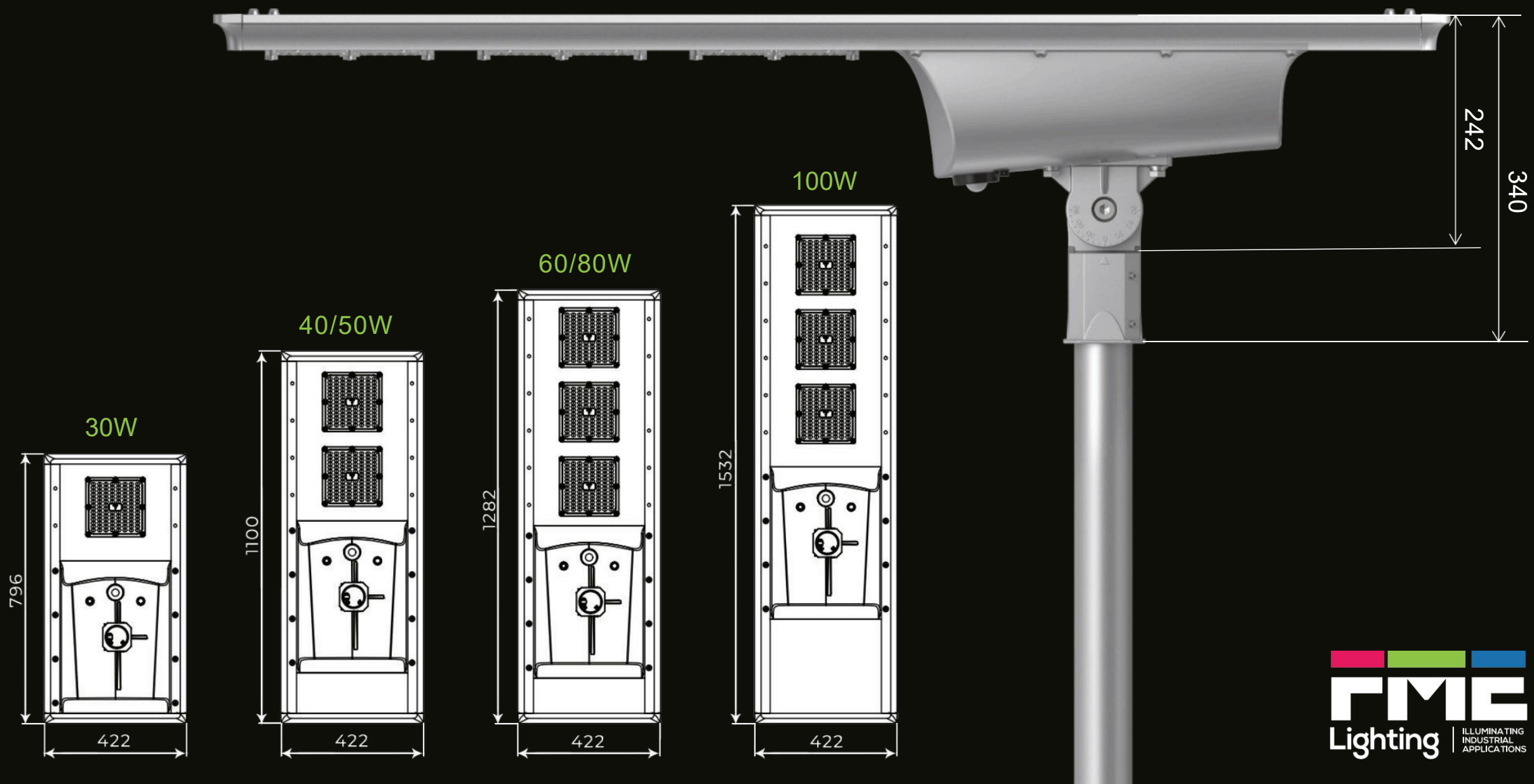
The light keeps10% brightness for 3hours until the sunrise.

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	S50-030	S50-040	S50-050	S50-060	S50-080	S50-100
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℃~50℃					

Dimensions



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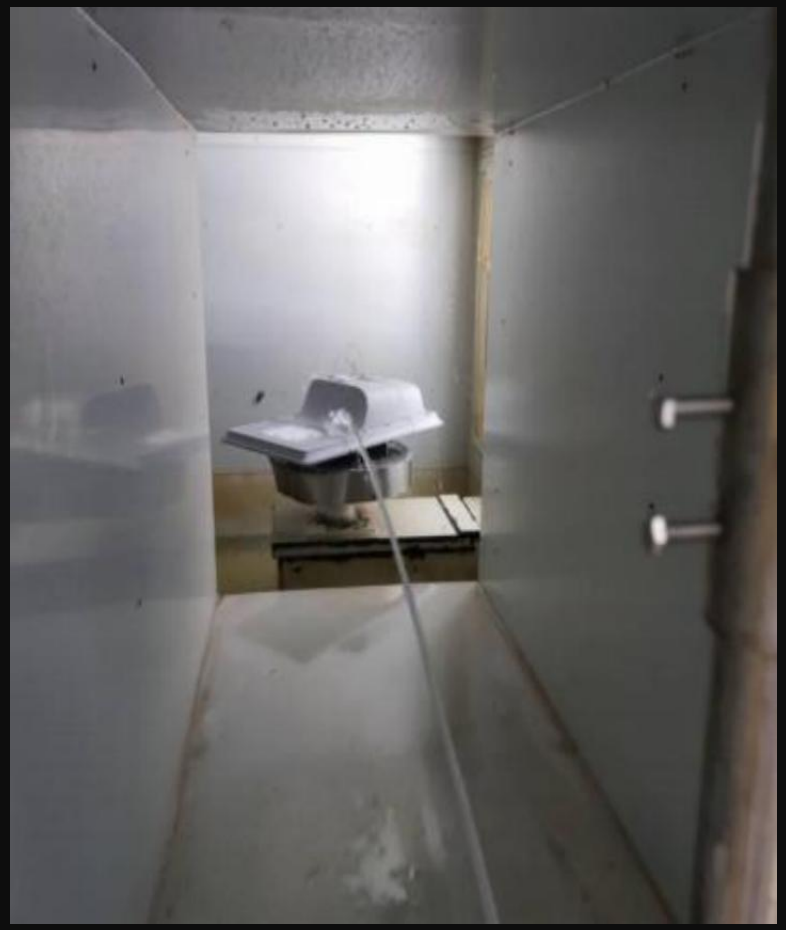
Reliability Tests

Dust test



IP65

Loading test

Discharge time test

Test the full discharge time
after the battery is fully charged

Model	Ambient temperature	Discharge Duration
S50-030	0℃	6.9H
	25℃	7.3H
S50-040	0℃	6.8H
	25℃	7.3H
S50-050	0℃	6.8H
	25℃	7.3H
S50-060	0℃	6.8H
	25℃	7.2H
S50-080	0℃	6.7H
	25℃	6.9H
S50-100	0℃	6.8H
	25℃	7.7H

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Applications