

NT50 LED Solar Street Light

All-in-one full series integrated solar street light



Development Purpose-1

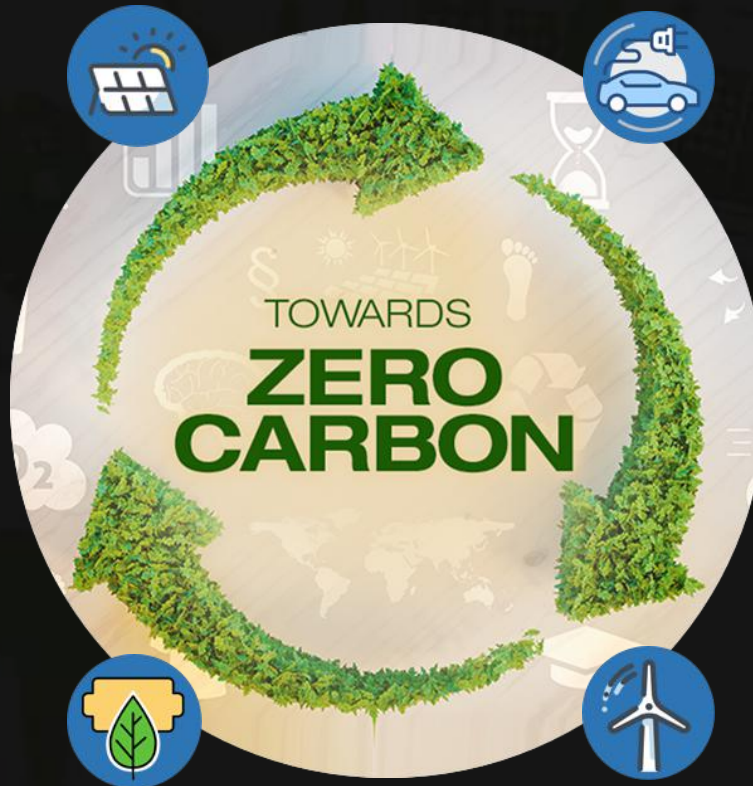
Follow the Carbon Neutrality by 2050: the world's most urgent mission.

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.

Solar Power



Recyclable Battery



Recharge able Electric Vehicle



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

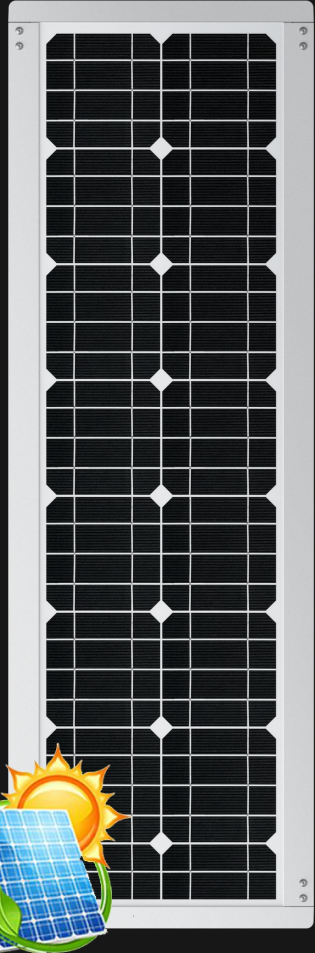




Modular Lens design

Multiple wattage fit for different projects

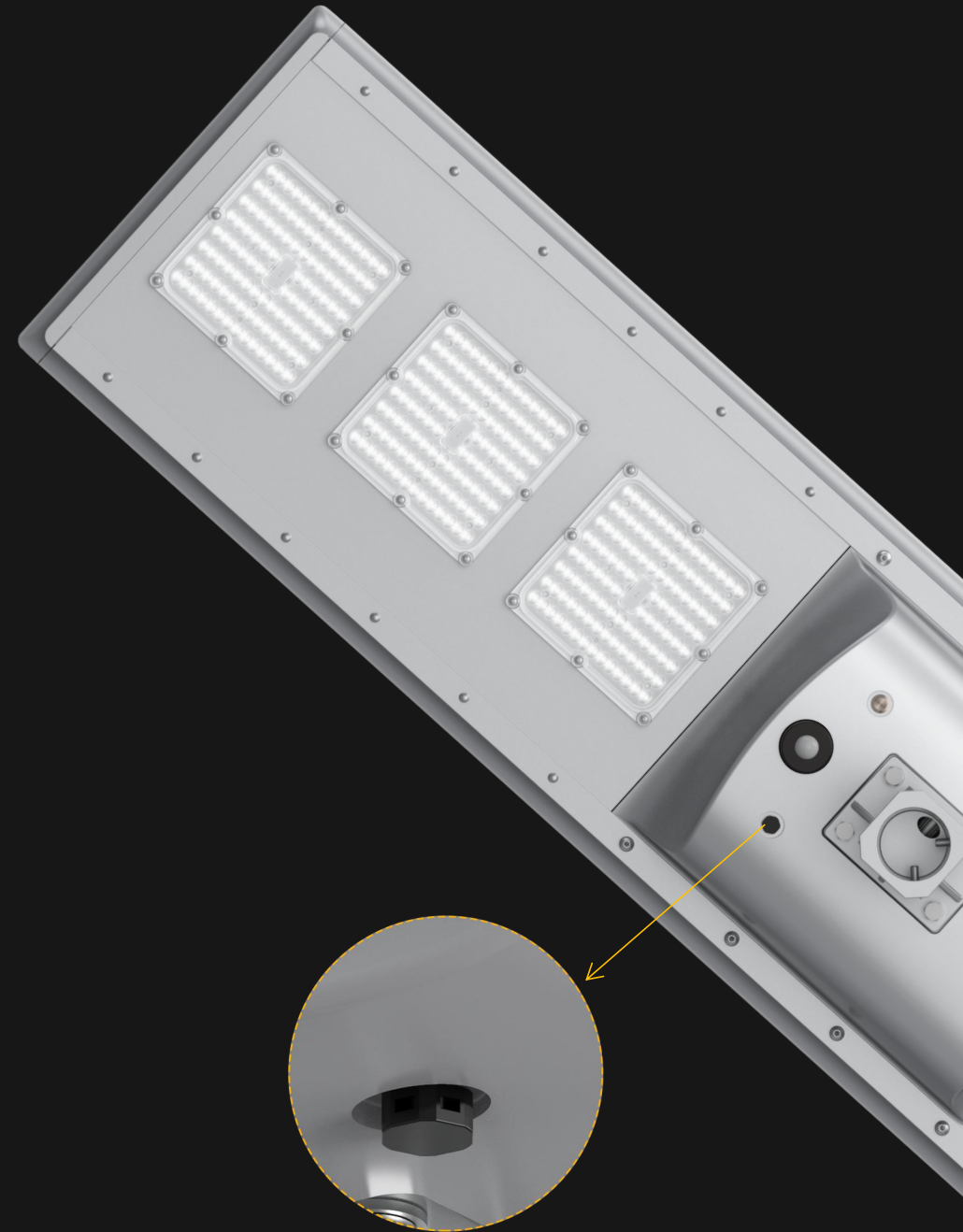
Mono-crystalline photovoltaic with a higher conversation efficiency



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: NT50-060-4070-R10801	TYPE:	WEIGHT:
	DIM.:	SERIAL No.:
	SUR.:	Shielding Angle:

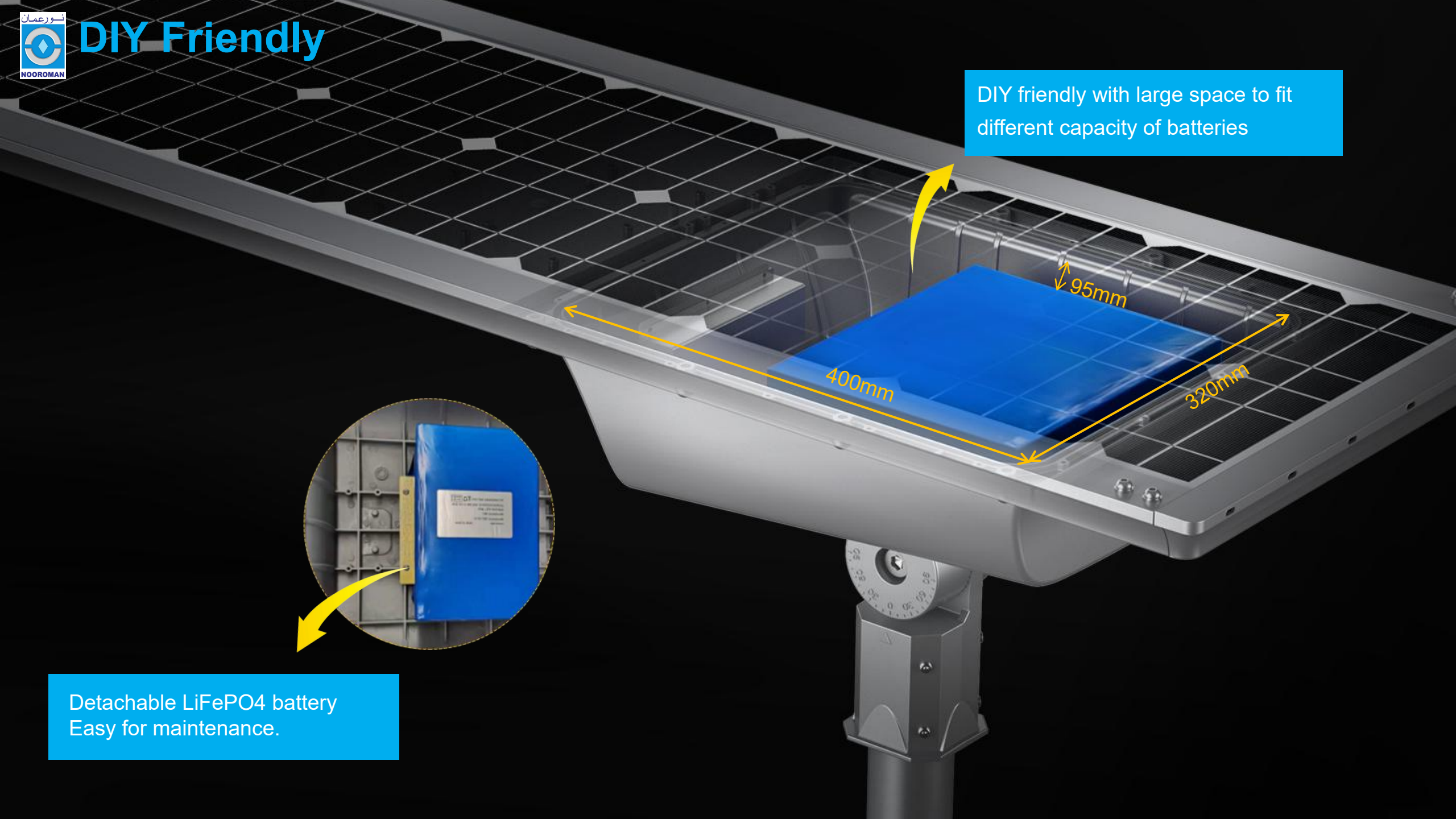
DATA OF LAMP		PHOTOMETRIC DATA			
		Eff: 202.17 lm/W			
MODEL	/	Imax (cd)	6858	η street_up (%)	0.0
NOMINAL POWER (W)	/	LOR (%)	100.0	η street_down (%)	76.0
RATED VOLTAGE (V)	/	TOTAL FLUX (lm)	11942	η house_up (%)	0.0
NOMINAL FLUX (lm)	11941.8	MAXIMUM @ (C, γ)	165,67.5	η house_down (%)	29.0
LAMPS INSIDE	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



Detachable LiFePO4 battery
Easy for maintenance.



80°



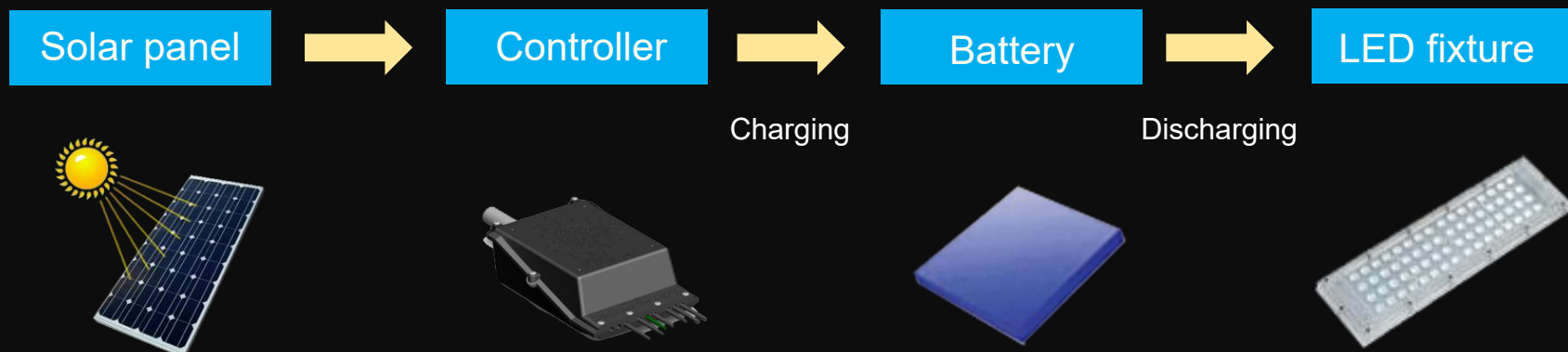
$\pm 80^\circ$ adjustable angle, more flexible.
Make your installation easier.



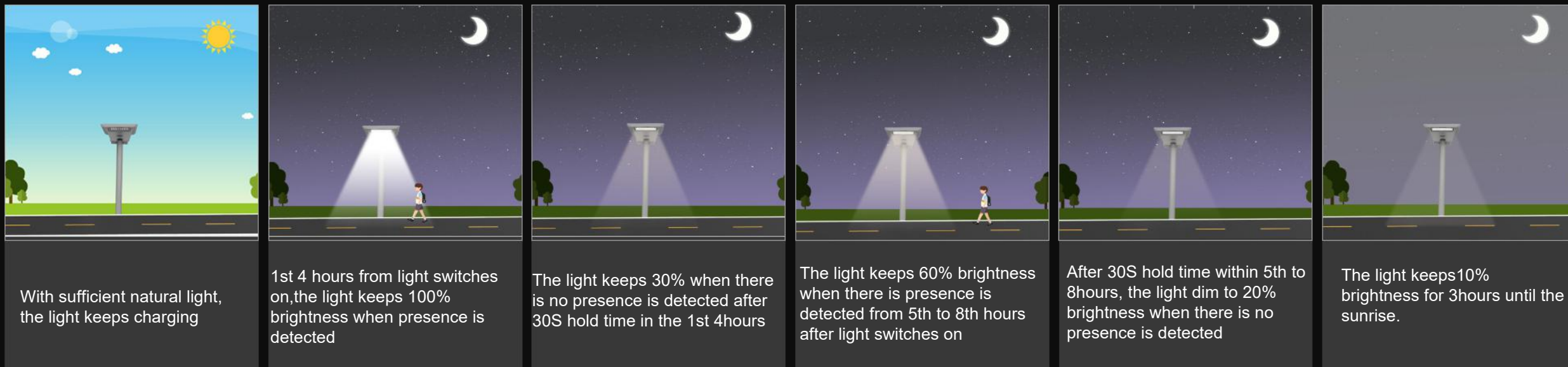
To get more effective sunshine easily



Intelligent Control



Factory Default Setting:

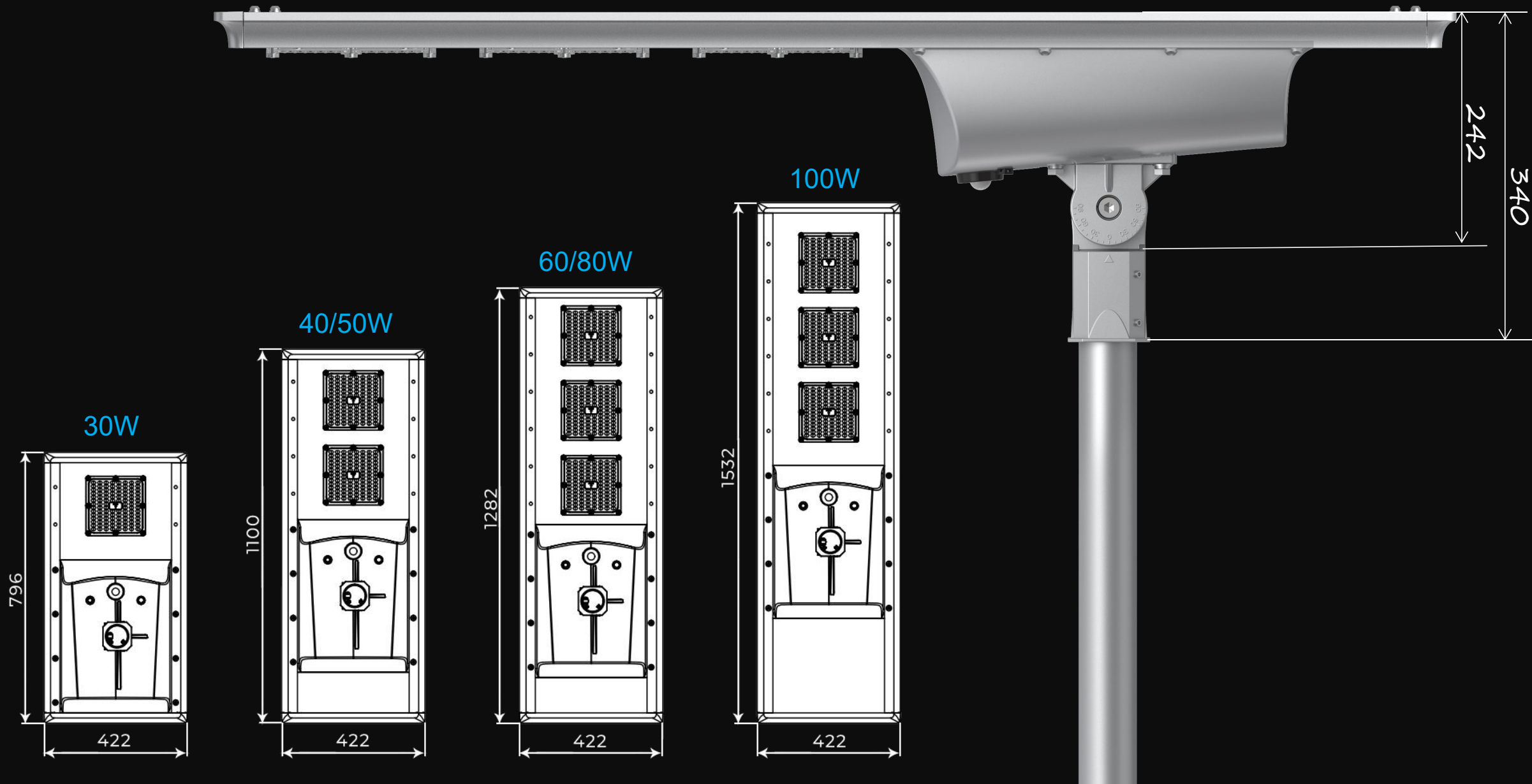


The controller recognizes day and night based on the solar array open circuit voltage, this day/night threshold can be modified according to local light conditions and the solar array used, setting range 3.0~8.0V.

Specification

SPECIFICATION	6,000LM	8,000LM	10,000LM	12,000LM	16,000LM	20,000LM
MODEL	NT50-030	NT50-040	NT50-050	NT50-060	NT50-080	NT50-100
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
NT50-030	0°C	6.9H
	25°C	7.3H
NT50-040	0°C	6.8H
	25°C	7.3H
NT50-050	0°C	6.8H
	25°C	7.3H
NT50-060	0°C	6.8H
	25°C	7.2H
NT50-080	0°C	6.7H
	25°C	6.9H
NT50-100	0°C	6.8H
	25°C	7.7H

Applications

