

PRODUCT CATALOGUE

POWERED FUTURES



SOLAR STREET LIGHTS

365 DAYS LIGHTING, ALL-WEATHER LIGHTING, SOLAR ENERGY ROAD PROJECTS FIRST CHOICE.

Accredited By:











Vision

At ON Energy Solutions, we aspire to be pioneers in supplying innovative and technological products tailored to meet renewable, safe, and sustainable energy.

Mission

Our mission is to supply meticulously crafted Renewable and Smart Energy Solutions to boost energy efficiency, champion sustainability, providing a brilliant and effective alternative to tackle 21st-century energy challenges and beyond and elevate the safety and well-being of our communities.

As we progress, insights from customers, technological breakthroughs, and our unwavering dedication to excellence will shape our array of offerings.

We envision forging a sustainable energy future for South Africa that embraces inclusivity, caters to all stakeholders, and carefully considers the diverse economic dynamics within our society and communities.

We prioritize the certification, accreditation, and testing of our Renewable and Smart Energy Solutions products sourced from reputable manufacturers. These partners adhere to stringent quality standards, providing the necessary certifications and test reports to ensure compliance with South African regulations.



SOLAR STREET LIGHTS

HIGH-SPEED CHARGING OF MONOCRYSTALLINE SILICON SOLAR PANELS



INTELLIGENT SUN CHASING LIGHT



4G CAMERA MONITORING LIGHT



ADJUSTABLE MODULES LIGHT



DOUBLE PANEL -HIGH POWER MODEL LIGHT



STANDARD MODEL LIGHT (4G CAMERA OPTIONAL)



ECONOMIC MODEL LIGHT (NOT 4G CAMERA OPTIONAL)



POWERED FUTURES

INTELLIGENT SUN CHASING SOLAR STREET LIGHT

Tracking rotation angle up to 340 degrees The service life of solar panel can reach 20-25 years.





4 PRODUCT SPECIFICATIONS AVAILABLE

Power: 100W/150W/200W/250W



PRODUCT PARAMETERS

model	model	model	model
YTH-KM2A-2	YTH-KM2A-3	YTH-KM2A-4	YTH-KM2A-5
Highlight 2835 wafer	Highlight 2835 wafer	Highlight 2835 wafer	Highlight 2835 wafer
240pcs	160 pcs	320pcs	400Pcs
total luminous flux	total luminous flux	total luminous flux	total luminous flux
4462lm	6085lm	7696lm	9355lm
installation height	installation height	installation height	installation height
3-5m	5-7m	7-9m	8-10m
battery capacity	battery capacity	battery capacity	battery capacity
12.8V / 308WH	12.8V / 384WH	12.8V / 410WH	12.8V / 461WH
PV panel power	PV panel power	PV panel power	PV panel power
18V / 40W	18V / 50W	18V / 60W	18V / 70W
solar panel size	solar panel size	solar panel size	solar panel size
720*350*23mm	870*350*23mm	1040*350*23mm	1210*350*23mm
Lamp body weight	Lamp body weight	Lamp body weight	Lamp body weight
12kg	14kg	16kg	18KG
20wFull battery life	30wFull battery life	40wFull battery life	50wFull battery life
about 16 hours	about 12.8 hours	about 10.2 hours	about 9.3 hours
Lamp body sizeLamp body size790*420*230mm940*420*230mm		Lamp body size 1110*420*230mm	



HIGH-END CONFIGURATION



SUPER BRIGHT LED CHIP

high brightness white light Lighting control + radar sensor The photoelectric conversion efficiency of monocrystalline panels is generally around 24%. The loss is small, and the rainy days can last for 5-7 days.

4G/WIRELESS NETWORK MODULE

The communication module can provide More stable transmission network, Higher transmission bandwidth, Safer Transmission Technology



RADAR SENSOR DIMMING

When no one is moving, the brightness is 50% 100% brightness when someone is moving Effectively save battery capacity Greatly improved battery life





LARGE CAPACITY BATTERY LONG BATTERY LIFE

Ternary lithium and iron phosphate batteries are optional Built-in short circuit, overcharge, over discharge protection module Effectively guarantee the stability and life of the battery.



EQUIPPED WITH MPPT CHARGING TECHNOLOGY

The overall power generation efficiency is about 40% higher than that of traditional solar lamps.





RECEIVES SUNLIGHT DURING THE DAY AND AUTOMATICALLY LIGHTS ON AT NIGHT

During the day, light is stored and light energy is converted into electricity. At night the intelligent light sensor control automatically lights up.





MULTIPLE BEAM ANGLES ADJUSTMENT

The lamp head is equipped with a precision scale. The angle of the lamp head can be adjusted arbitrarily.

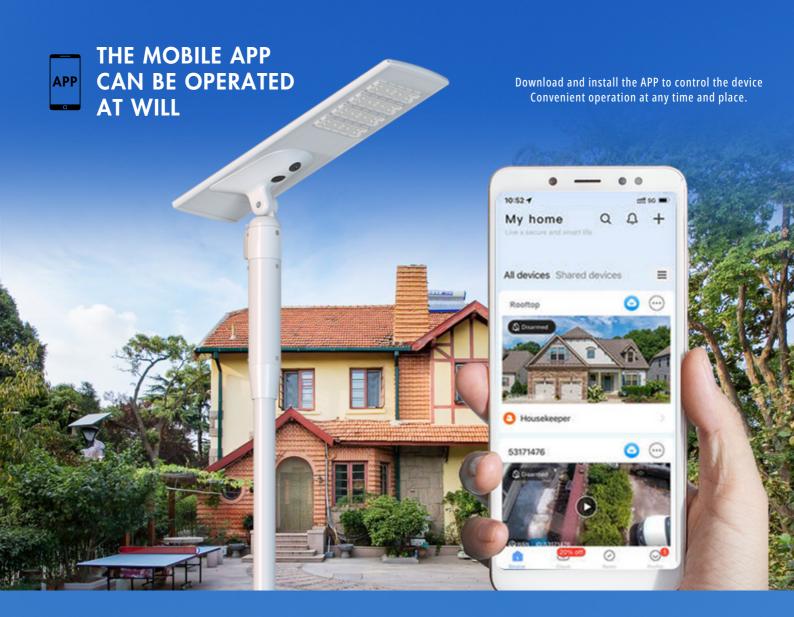


HIGH SPEED CHARGING

Monocrystalline silicon photovoltaic panel

Using high-efficiency monocrystalline silicon solar panels, the solar power generation efficiency reaches 23%. 25-30 years lifespan and warranty.





4G REMOTE MONITORING

1080P high-definition pixels, when going out, multiple terminals can easily view through remote, support real-time viewing of multiple terminals such as mobile and PC, and multiple accounts can be viewed at the same time.



VOICE INTERCOM MONITORING RECORDING

Two-way voice, real-time conversation, video intercom, the conversation is very clear. Built-in fidelity sensor, monitoring function. With recording and intercom functions, it can make remote calls and restore the real scene.

Outdoor (30-50m)





MOTION DETECTION, REMOTE ALARM

Comes with WIFI hotspot, mobile remote observation





4G CAMERA MONITORING LIGHT

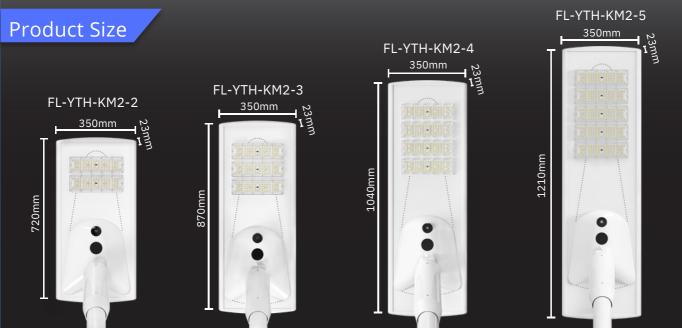
Providing Quality Design & Engineering





PARAMETERS OF 4G CAMERA MONITORING LIGHT				
Product model	FL-YTH-KM2-2	FL-YTH-KM2-3	FL-YTH-KM2-4	FL-YTH-KM2-5
LED Quantity	160Pcs	240Pcs	320Pcs	400Pcs
Total light	4000-6000lm	6000-8000lm	8000-10000lm	10000-12000lm
Recommended installation height	3-5m	5-7m	7-9m	8-10m
Battery capacity	12.8V/25AH	12.8V/30AH	12.8V/35AH	12.8V/42AH
Solar panels	18V 40W	18V 50W	18V 60W	18V 80W
Product size	720*350*23mm	870*350*23mm	1040*350*23mm	1210*350*23mm
Net weight	12kg	14kg	16kg	18kg
Package Size	790*420*230mm	940*420*230mm	1110*420*230mm	1280*420*230mm
Installation diameter	Φ76/80mm			
Application	Municipal roads / Park squares / Private courtyards / new rural road construction			





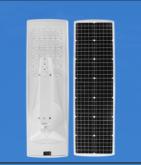
4G CAMERA MONITORING LIGHT Solar powered, 1080P HD pixels



PRODUCT FEATURES

- All in one Extra slim Lamp Shell design, Aluminum alloy case, Waterproof IP65, 3 years Warranty.
- Philips/Lumileds Chip brand. 200lm/w lumen efficiency, super bright. 75°x140° Beam angle.
- 4G/WIFI monitor camera, 2 million pixels(support 32G/64G/128G RAM).
- High conversion rate Monocrystalline silicon photovoltaic panels.
- 20-30m Radar/ motion sensor energy saving model.
- 1500 cycle High capacity lithium iron phosphate battery. Detachable/Customizable.
- MPPT control system, Charging faster and more stable.
- Turn on at dusk and tun off at dawn automatically.









Extra slim Lamp Shell design



4G/WIFI Monitor camera



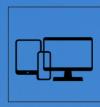
High conversion silicon photovoltaic panels



20-30m Radar rate Monocrystalline motion sensor energy saving model Shell design



Support32-64G **High-speed** storage card



APP / iPAD / PC Remote monitoring unlimited distance



4G CAMERA MONITORING LIGHT

Real-time Viewing for Camera Monitoring Status



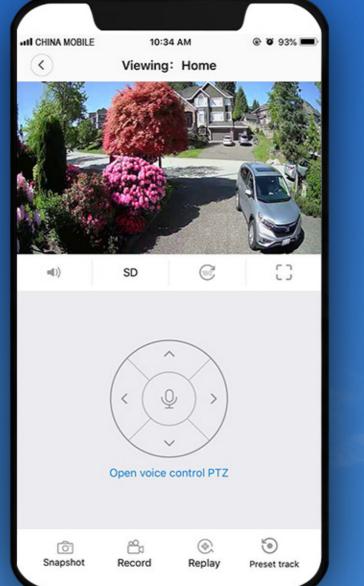
View the farm anytime, anywhere



Look at the workshop anytime, anywhere



View the parking lot anytime, anywhere





Look at the garage anytime, anywhere



Nursing home when out home



Look at the mall anytime, anywhere



THREE STEPS Easy installation

Easy installation in 3 simple steps, monitoring even in an environment without electricity or network.







MOTION SENSOR SOLAR STREET LIGHT

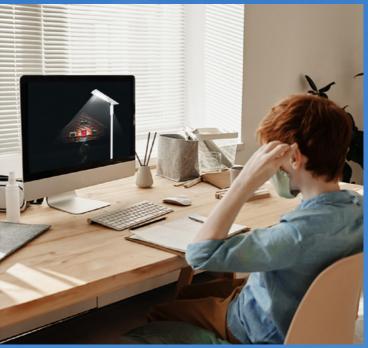
20-30 meters radar sensing range Radar sensor dimming mode. Bright when busy, low bright when idle, automatically adjust the brightness Energy saving mode. Can effectively reduce light waste,Increase battery life, reduce battery replay times, Extend battery life.



MOTION DETECTION MOBILE PHONE ALARM

If there is an abnormal change in the screen, an alarm message will be pushed to your phone. You can remotely view the on-site situation through your mobile phone. The alarm function is turned on or off at any time.









Detect human movement.



Two-way voice, real-time communication, and visual intercom communication is clearer.



Built-in fidelity pickup, monitoring comes with recording and intercom functions, and can communicate remotely to restore the real scene.

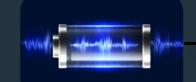
LARGE CAPACITY IRON PHOSPHATE BATTERY LONG BATTERY LIFE

- Longer life span(2000-5000 cycles).
- Short circuit protection.
- Overcharge protection.
- Over discharge protection.
- Safety and Environmental friendly.
- Wider range of working temerature.



MPPT Solar Charge Controller

Charging faster and more stable.





MULTIPLE INSTALLATION METHODS

Installation diameter: Φ76/80mm





SCENARIO SHOWS



Highway



Private courtyards

New city road





PRODUCT REAL SHOT SHOW













IRRADIATION AREA REFERENCE Note: The specific illuminance value is calculated based on the Beam actual wattage and quantity purchased and the installation angle height. 75°x140° Certer Illuminance:18-24lux 2 modules Irradiation range Height(3-5m) (40m2—60m2) Irradiation range 3 modules (70m2 - 90m2)Height(5-7m) Irradiation range 4 modules (80m2——120m2) Height(7-9m) Irradiation range 5 modules (100m2 - 150m2)Height(8-10m) Edge illuninance:8-13lux

FOLDABLE FOR EASIER TRANSPORTATION

Each Product Has Its Own Independent Packaging. Accept Your Special Demands. Let You Save Time and Worries.





DOUBLE PANEL - HIGH POWER MODEL LIGHT



Product Features

- Integrated design and source, high capacity LiFePO4 lithium battery, high energy, and long life, light weights, green and environmental protection, do not produce any harmful substances.
- Philips LED chip with high light efficiency which can reach 200LM/W.
- 4G/WIFI monitor camera, 2 million pixels(support 32G/64G/128G RAM).
- All series use MPPT controller which can increase 30%-50% charge efficiency
- Convenient installation and maintenance, no need of cable installation or special light pole, installation and maintenance, convenient and quick replacement.











ADJUSTABLE MODULES STREET LIGHT



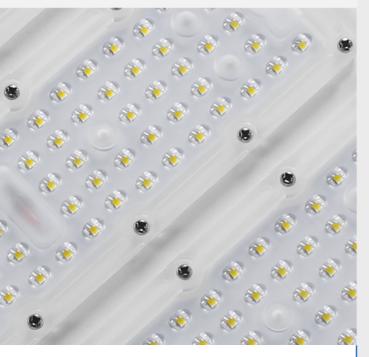
Parameters Of Adjustable Module Light					
Product model	FL-YTH-KM2-2	FL-YTH-KM2-3	FL-YTH-KM2-4	FL-YTH-KM2-5	
Power	50-60w	60-70w	80-90w	90-100w	
LED Quantity Total	160Pcs	240Pcs	320Pcs	400Pcs	
Total luminous flux	4000-5000lm	6000-7000lm	8000-9000lm	9000-10000lm	
Battery type	Lithium iron phosphate battery				
Recommended installation height	3-5m	5-7m	7-9m	8-10m	
Battery capacity	12.8V 231WH	12.8V 308WH	12.8V/359WH	12.8V/410WH	
Solar panels	18V 40W	18V 50W	18V 60W	18V 70W	
Lens Material	PC 75°x140°	PC 75°x140°	PC 75°x140°	PC 75°x140°	
Product size	802*287.6*179mm	947*287.6*179mm	1151*287.6*179mm		
Lamp body weight	12kg	14kg	16kg	18kg	
Lamp body size	790*420*230mm	940*420*230mm	1110*420*230mm	1280*420*230mm	
Package Size	840*330*240mm	985*330*240mm	1190*330*240mm		
Installation diameter	Φ76/80mm				
Application	Garden courtyard / Park plaza / Municipal highway / New rural countryside road lamp				





High light efficiency LED lamp beads

2835 lamp beads, the whole light effect can reach 180LM/W Anti-sulfide process, more suitable for outdoor lighting



Angle-adjustable modules Module angle adjustable Can be adjusted according to irradiation needs 5 angles adjustable

-20°/-10°/0/10°/20°













4 product specifications available

Power: 100W/150W/200W/250W





Angle-adjustable modules

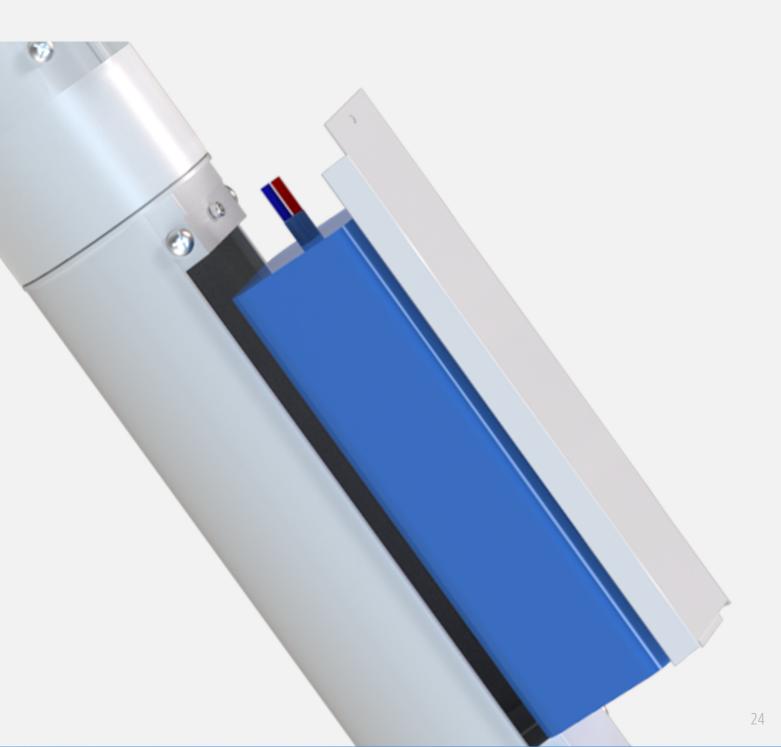
Can be adjusted according to needs Easy adjustment without tools





Long-life battery pack

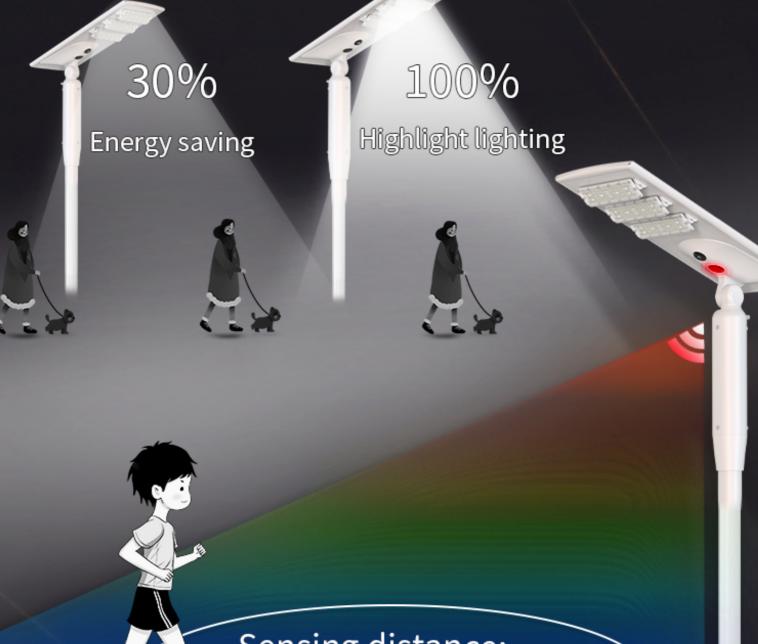
High-performance ternary lithium battery, A1 lithium iron phosphate battery pack,





Infrared human body intelligent sensing

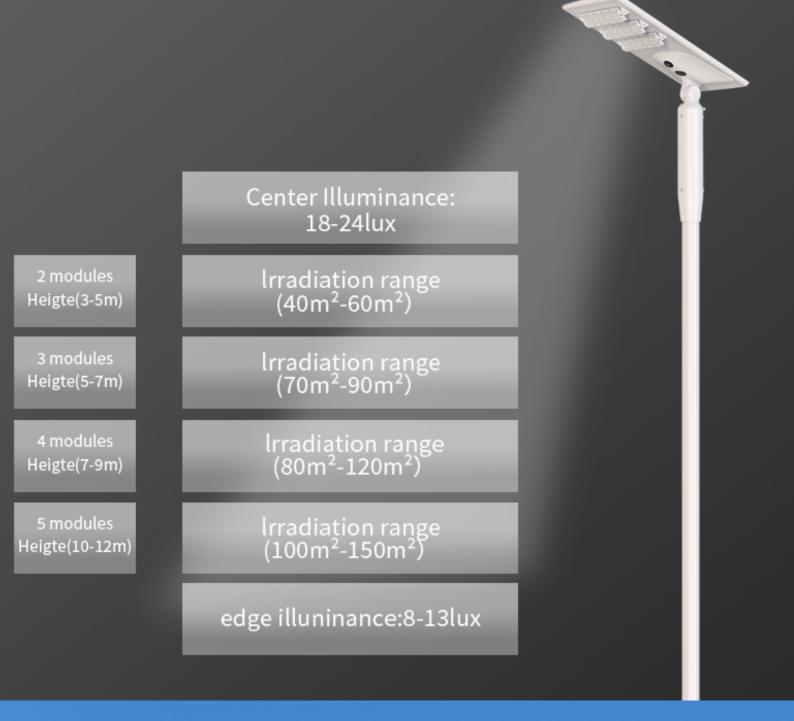
10-30 meters long sensing distance 30%-100% automatic adjustment of brightness and darkness



Sensing distance: 10-30 meters

Irradiation AREA Reference

(Note: The specific illuminance value is calculated based on the actual wattage and quantity purchased and the installation height.)





STANDARD MODEL LIGHT 4G CAMERA OPTIONAL







Parameters Of Standard Street Light					
Product model	FL-YTH-KM2-2	FL-YTH-KM2-3	FL-YTH-KM2-3	FL-YTH-KM2-4	
Power	50-60w	60-70w	80-90w	90-100w	
LED Quantity Total	160Pcs	240Pcs	320Pcs	400Pcs	
Total luminous flux	4000-6000lm	6000-8000lm	8000-10000lm	10000-12000lm	
Battery type	Lithium iron phosphate battery				
Recommended installation height	3-4m	4-5m	5-6m	6-8m	
Battery capacity	12.8V/231WH	12.8V/308WH	12.8V/359WH	12.8V/410WH	
Solar panels	18V 40W	18V 50W	18V 60W	18V 70W	
Beam angle	75°x140°	75°x140°	75°x140°	75°x140°	
Product size	802*287.6*179m	947*287.6*179mm	1151*287.6*179mm		
Net weight	m 8kg	9.38kg	10.58kg	10.67kg	
Gross weight	9.22kg	10.72kg	12.14kg	12.23kg	
Package Size	840*330*240mm	985*330*240mm	1190*330*240mm		
Installation diameter	Φ76mm/Φ80mm				
Application	Garden courtyard / Park plaza / Municipal highway / New rural countryside road lamp				



ECONOMIC MODEL LIGHT NOT CAMERA OPTIONAL



Product Features

- Double protection function of low temperature and overheating, intelligent power mode.
- Philips LED chip with high light efficiency which can reach 160LM/W.
- With lithium iron phosphate battery, good high temperature resistance and long cycle life.
- Using high-efficiency monocrystalline silicon solar panels.
- Human body induction/microwave induction Lights up 12 hours every night.
- Application: Garden courtyard / park square / municipal road / new rural country road.



ZERO COST OF ELECTRICITY, FREE WIRING INSTALLATION





Parameters Of Economic Street Light				
Product model	FL-YTH-KM1-1	FL-YTH-KM1-2	FL-YTH-KM1-3	FL-YTH-KM1-4
Power	10-20w	30-40w	40-50w	60-70w
LED Quantity	42Pcs	64Pcs	60Pcs	80Pcs
Total light	1600lm	3200lm	4800lm	6400lm
Battery type	Lithium iron phosphate battery			
Recommended installation height	3-4m	4-5m	5-6m	6-8m
Battery capacity	12.8V/9AH	12.8V/15AH	12.8V/18AH	12.8V/21AH
Solar panels	18V 24W	18V 36W	18V 48W	
Beam angle	60°x150°	80°x150°	65°x135°	60°x130°
Product size	802*287.6*179mm	947*287.6*179mm	1151*287.6*179mm	
Net weight	8kg	9.38kg	10.58kg	10.67kg
Gross weight	9.22kg	10.72kg	12.14kg	12.23kg
Package Size	840*330*240mm	985*330*240mm	1190*330*240mm	
Installation diameter	Φ60mm			
Application	Garden courtyard / Park plaza / Municipal highway / New rural countryside road lamp			





AUTO CHARGE AT DAYTIME



PRODUCTION CAPACITY QUALITY ASSURANCE

Always adhere to the "responsible for the quality of every product" From the source to the shipment, the quality inspection strictly controls the details



PRODUCTION CAPACITY QUALITY ASSURANCE

Foldable, small size, easy to transport, save freight We can accept your special requirements, so that you can save your worries and effort.



CUSTOM WOODEN CRATE

Bulk customer support customizable wooden boxes High-quality wood outer box can effectively protect the product.

THICKENED CARTON PACKAGING

Customer samples are packed in multi-layer thickened cartons Note: Additional customization fee applies.







