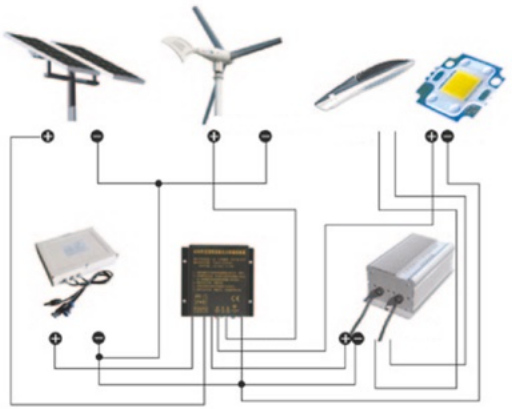
LED BRIGHTENS THE WORLD, GREEN LIGHTING BRINGS BENEFITS TO HUMANS.



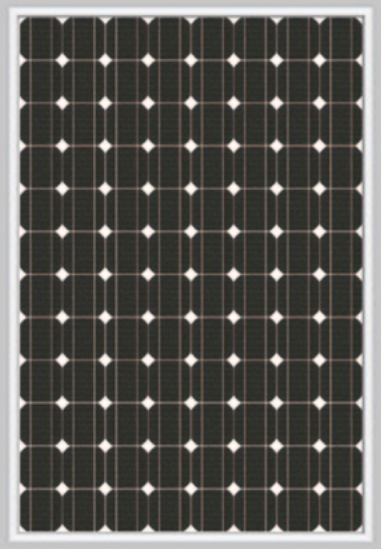
SOLAR LIGHTING SERIES

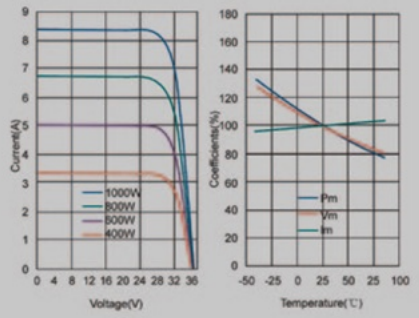
K1/(m².a)[Kral/(m².a)]	419	461	502	544	586	628	668	712	754
	100	110	120	130	140	150	160	170	180
100W/m².a	3.19	3.50	3.82	4.14	4.46	4.78	5.10	5.42	5.78

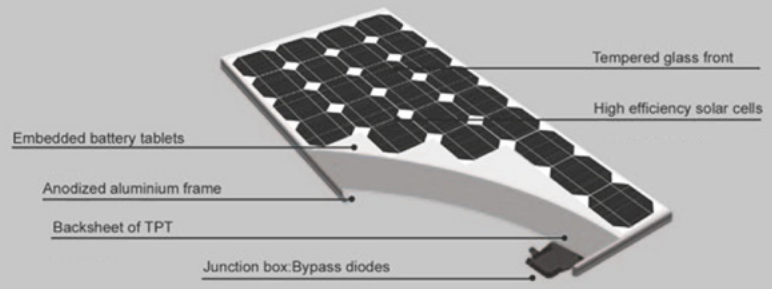
K1/(m².a)[Kral/(m².a)]	⩾ 586	502–589	419–502	419
	⩾ 140	120–140	100–120	⩽ 100
	⩾ 3000h	2400–3000	1600–2400	⩽ 1600



MONO-CRYSTALLINESILICON SOLAR PANEL







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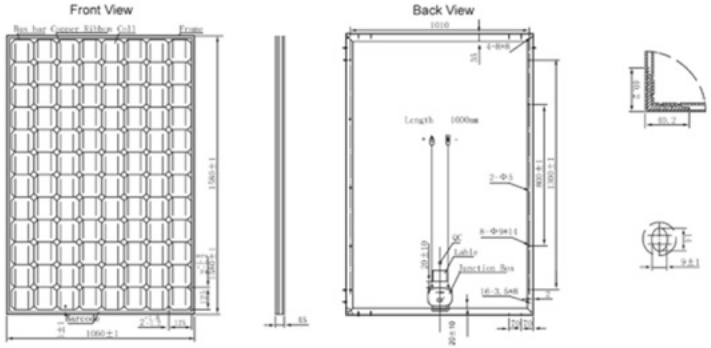
Typical electrical parameters

Type	SF250M-32	SF255M-32	SF260M-32	SF265M-32	SF270M-32	SF275M-32
Maximum power(Pmax)	250W	255W	260W	265W	270W	275W
Power tolerance	±3%	±3%	±3%	±3%	±3%	±3%
Open circuit voltage(Voc)	59.9V	60.7V	61.6V	61.9V	62.3V	59.8V
Short circuit current(Isc)	5.58A	5.60A	5.63A	5.72A	5.84A	6.16A
Maximum power voltage(Vmp)	47.9V	48.3V	49.2V	49.5V	49.9V	50.3V
Maximum power current(Imp)	5.22A	5.28A	5.29A	5.35A	5.41A	5.47A
Cell efficiency	17.4%	17.6%	18%	18.40%	18.8%	19.00%
Module efficiency	14.93%	15.23%	15.52%	15.82%	16.12%	16.42%
Max.system voltage	1000VDC					
Cell size and series	6"(125mm)*6"(125mm)mono 96pcs(8*12)					
Bypass diodes	4pcs 9A					
Temperature coefficients of pmax	-0.47%/℃					
Temperature coefficients of voc	-0.38%/℃					
Temperature coefficients of isc	0.10%/℃					
NOTC-Nominal operating cell temperature	45℃ (±2)					
STC condition	Irradiance level 1,000W/m^2,Spectrum AM 1.5,and Cell Temperature 25℃					

Mechanical characteristics

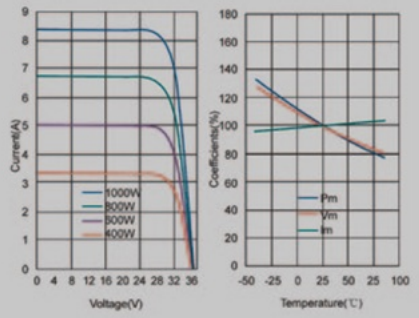
Surface maximum load capacity	2,400Pa
Allowable hail load	227g steel ball fall down from 1m height
Glass type	High transmit,low iron,3.2mm tempered glass
Frame	Aluminium-alloy
Dimensions(mm)	1580mm(L)×1060mm(W)×45mm(H)
Weight(kg)	22.5kgs
Dielectric Insulation voltage	3600VDCmax
Operating temperature	-40℃ +85℃
Storage temperature	-40℃ +85℃
Cable length	1000mm

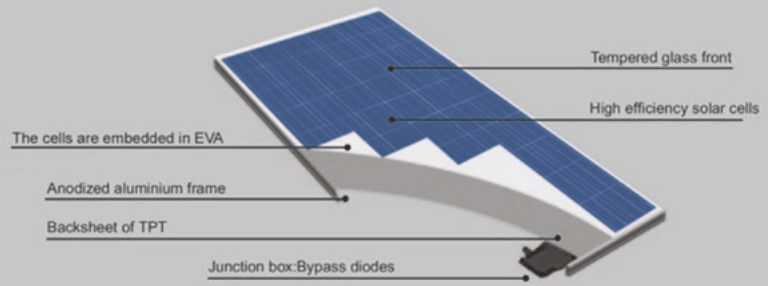
Dimensions



POLY-CRYSTALLINE SOLAR PANEL







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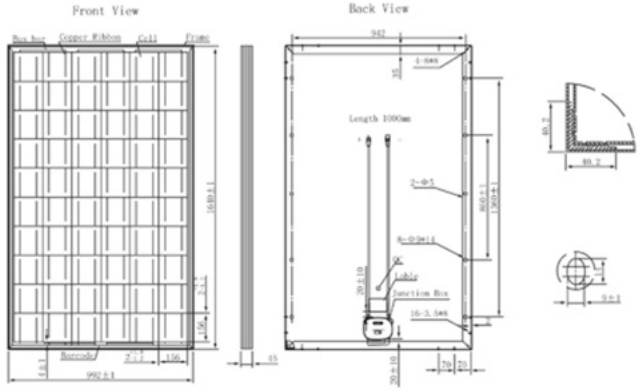
Typical electrical parameters

Type	SF215P-20	SF220P-20	SF225P-20	SF230P-20	SF235P-20	SF240P-20
Maximum power(Pmax)	215W	220W	225W	230W	235W	240W
Power tolerance	±3%	±3%	±3%	±3%	±3%	±3%
Open circuit voltage(Voc)	36.5V	37.0V	37.0V	37.0V	37.0V	37.2V
Short circuit current(Isc)	8.03A	8.10A	8.17A	8.22A	8.29A	8.33A
Maximum power voltage(Vmp)	29.3V	29.5V	29.6V	29.8V	30.0V	30.2V
Maximum power current(Imp)	7.34A	7.45A	7.60A	7.72A	7.83A	7.95A
Cell efficiency	15.0%	15.4%	15.8%	16.2%	16.4%	16.8%
Module efficiency	13.21%	13.52%	13.83%	14.14%	14.44%	14.75%
Max.system voltage	1000VDC					
Cell size and series	6"(156mm)*6"(156mm)poly 60pcs(6*10)					
Bypass diodes	3pcs 9A					
Temperature coefficients of pmax	-0.38%/℃					
Temperature coefficients of voc	-0.32%/℃					
Temperature coefficients of isc	0.08%/℃					
NOTC-Nominal operating cell temperature	45℃ (±2)					
STC condition	Irradiance level 1,000W/m^2,Spectrum AM 1.5,and Cell Temperature 25℃					

Mechanical characteristics

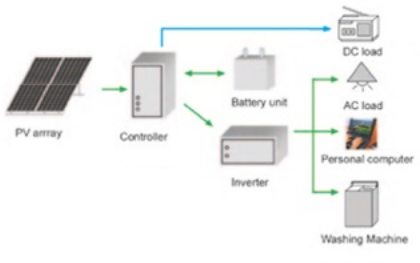
Surface maximum load capacity	2,400Pa
Allowable hail load	227g steel ball fall down from 1m height
Glass type	High transmit,low iron,3.2mm tempered glass
Frame	Aluminium-alloy
Dimensions(mm)	1640mm(L)×992mm(W)×45mm(H)
Weight(kg)	22.5kgs
Dielectric insulation voltage	3600VDCmax
Operating temperature	-40℃ +85℃
Storage temperature	-40℃ +85℃
Cable length	1000mm

Dimensions



SOLAR OFF-GRID POWER GENERATION SYSTEM

◆ The off-grid solar photovoltaic power is defined as power generation mode that is connected by solar photovoltaic power generation and the grid, its typical characteristic is that the battery stores electric energy to use at night. In the civilian range, off grid solar photovoltaic power generation is mainly used for the basic electrical life, such as provide lighting, watching TV, listening to broadcasting, etc for herdsmen in remote rural, pastoral areas, islands, plateau, desert; In the industrial range, it is mainly used to provide power for communications, satellite radio and television relay stations, solar water pumps, bacon lamp, oil and gas pipeline cathodic protection, meteorological stations, road station and border posts, etc. In the area where wind power and hydro power is possible, it can also apply mixed power system, such as wind power system, solar power system.



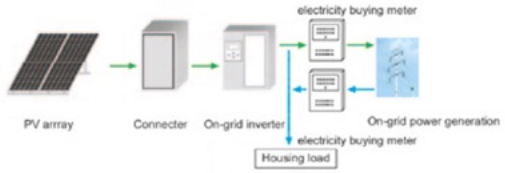






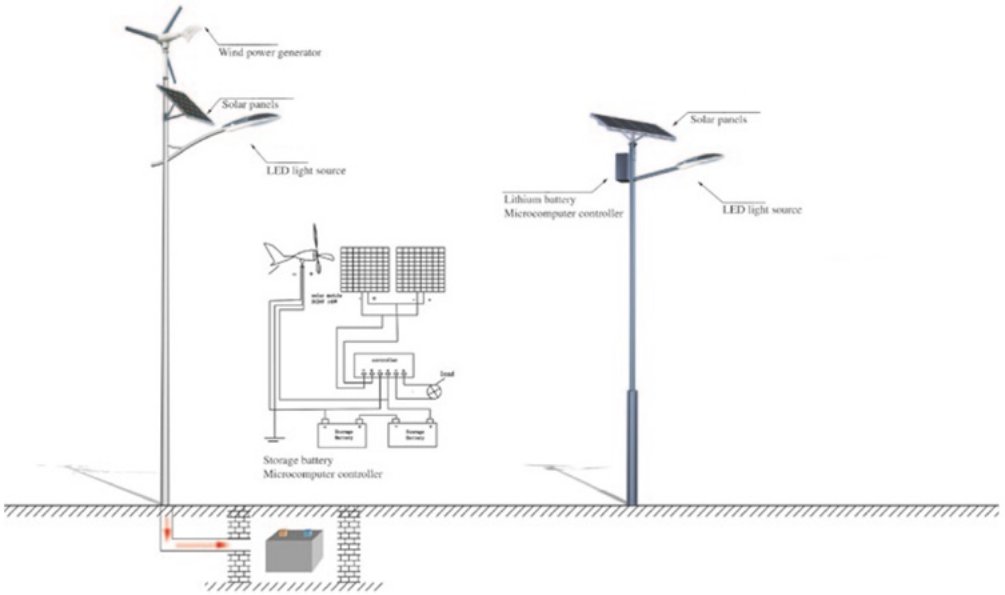
SOLAR GRID-CONNECTED POWER GENERATION SYSTEM

◆ The solar grid-connected power generation system converts solar energy into electric energy directly through the grid connected inverter, without through battery storage, to send electric energy to the electricity grid. The development of new energy and renewable clean energy is one of the five most crucial technologies in the economic development in twenty-first Century. Full development and utilization of solar energy is energy strategic decision-making of all governments based on sustainable development around the world , in which the solar power generation attracts the most attention. Solar power generation will be widely applied in the future, and currently is able to meet requirements in application field, by 2030, the solar power generation will have accounted for 5%~20% based on total power generation in the world. There are many advantages for solar power generation, such as safe, reliable, no noise, no pollution, energy is available everywhere, no geographical restrictions, no fuel consumption, no mechanical moving parts, low failure rate, easy maintenance, unattended operation, short construction period, optional size, no need to set up the transmission line, be able to conveniently combined with buildings, etc, which are the conventional power generation methods and other power generation methods fail to catch up with.



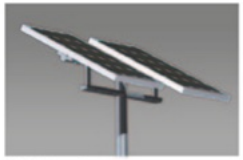






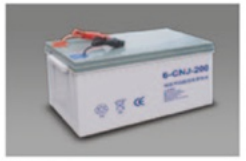

LED


Wind generator

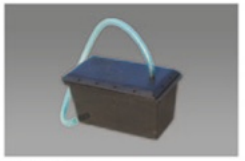

Solar panels


Current source


Lithium electricity intelligent control system


Battery


Controller

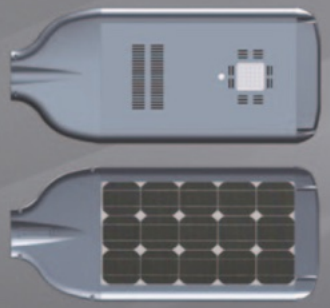

Battery box



Application of Lithium Batteries







LED-025

Scope of application

It is installed in various traffic roads, auxiliary roads, district roads, courtyards, mines, places where electricity is hardly working, park, parking lot, etc. to provide light, and the solar panel is to charge the battery to provide light.



Technical parameters

LED/Integrated LED	
Rated power	10W
Color temperature	3000K–6000K
Efficiency	90–140lm/W
Power factor	≥ 95%
Protection Level	IP66
Initial Luminous Flux	900lm–1400lm
Installation Pole Diameter	Φ60mm
Installation height	6–8m
Consecutive Rainy Days	3–5 days
Lighting time every day	2–5H
Battery Specification	10–30AH
Solar Panel	10–30W
Control Mode	Light–Controlled Smart
Practical Range	Mobile, Home
Practical Function	Convenient lighting
Lighting Method	Static 5%, 20m induction 100%

Hidden radar sensor

◆ It is simple and beautiful, with integrated design of driving radar; it's accurate and sensitive, won't influenced by environmental temperature changes
◆ It's with active detection (quick, accurate)
◆ It's with intelligent microwave sensor (hidden)
◆ It can penetrate walls of different thickness according to the power capability.
◆ (8 to 10 meters) further distance, broader angle, without dead area
◆ It is not affected by the environment, temperature, dust, etc.



TYN–001 6–8m LED



TYN–002 6–8m LED



TYN–003 6–8m LED



TYN–004 TYN–005 TYN–006 TYN–007



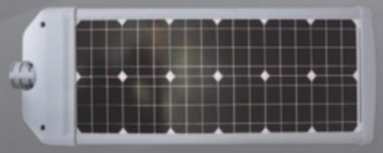


LED-026-A



LED-026-B





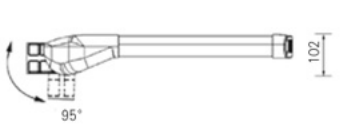
LED-026

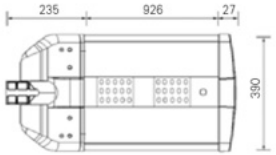
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Technical parameters

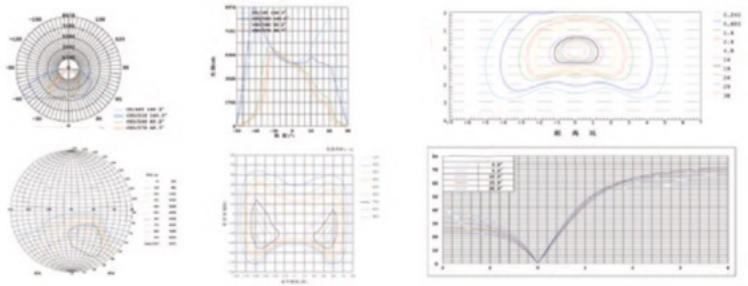
LED/The integration of the LED	
Power	30W–60W
Input voltage	12V–56V
With the light	60° –140°
Operating environment	–40°C +60°C
IP	67
Temperature rise	25°C
Photosynthetic efficiency	110lm/W
Color temperature	3000K–6000K
Connection mode	
Light source	SEOUL/CREE
5–year decay	15%
Guarantee period	5

Structure size





Light distribution curve



Optional color





TYN—008 6—8m LED

INTEGRATED SOLAR STREET LAMP

Product description

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TYN—009 6—8m LED



TYN–010 6–8m LED



TYN–011 6–8m LED

INTEGRATED SOLAR STREET LAMP



TYN–012 6–8m LED





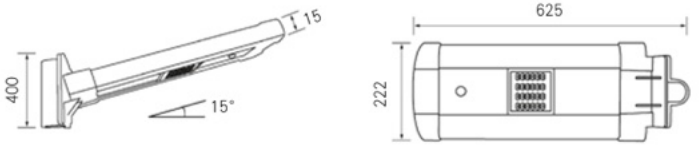
LED-027

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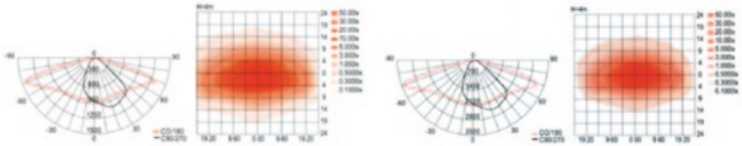
Technical parameters

LED/The integration of the LED	
Power	15W–30W
Input voltage	12V–56V
With the light	60° –140°
Operating environment	–40°C +60°C
IP	67
Temperature rise	25°C
Photosynthetic efficiency	110lm/W
Color temperature	3000K–6000K
Connection mode	
Light source	SEOUL/CREE
5–year decay	15%
Guarantee period	5

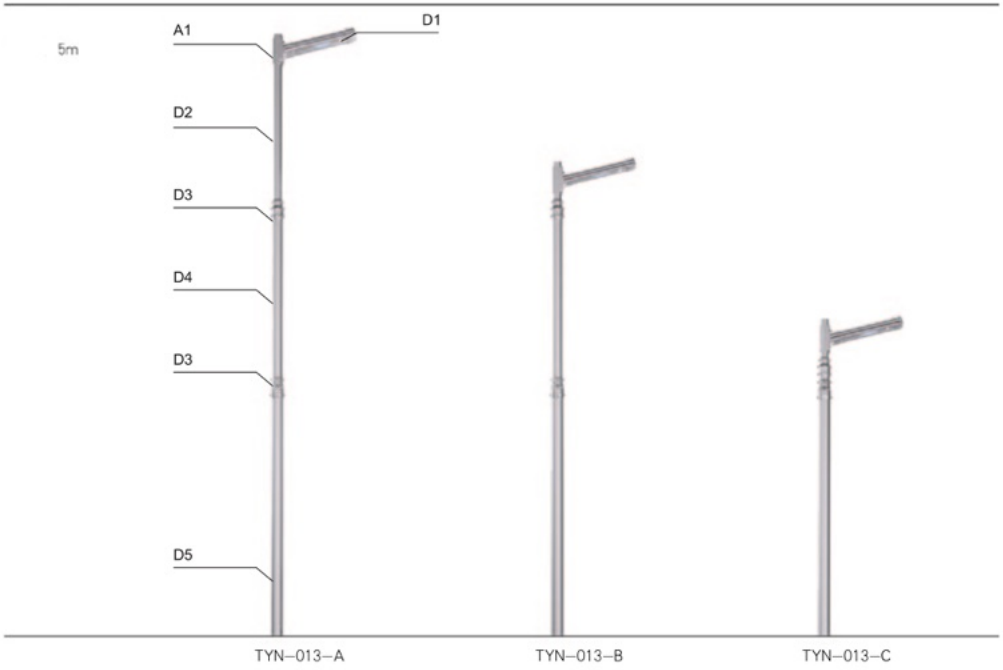
Structure size



Light distribution curve







Product description

Structure patent Introduction

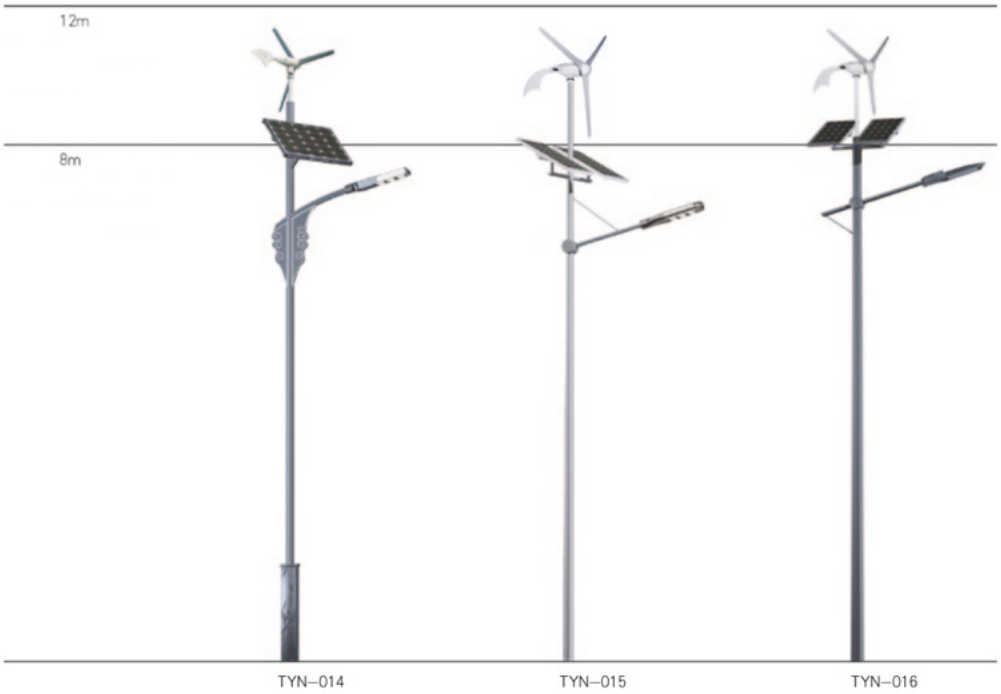
Product description: a retractable street light pole.

Performance analysis: this light pole three or four different diameter steel or aluminum tube through the activities of the bayonet section head of a light pole, its superiority lies in easy to transport installation, simple, convenient, environmental protection, its advantage lies in three light pole can shrink section.

Structure: solar lamps and lanterns of D1 through fasteners A1 on the light pole D2, again through the bayonet socket joint D3 on different diameter of the light pole is fixed in the next section, D4 through D3 different diameter of the light pole is fixed in the next section on D5, thus forming a complete set of solar street light.





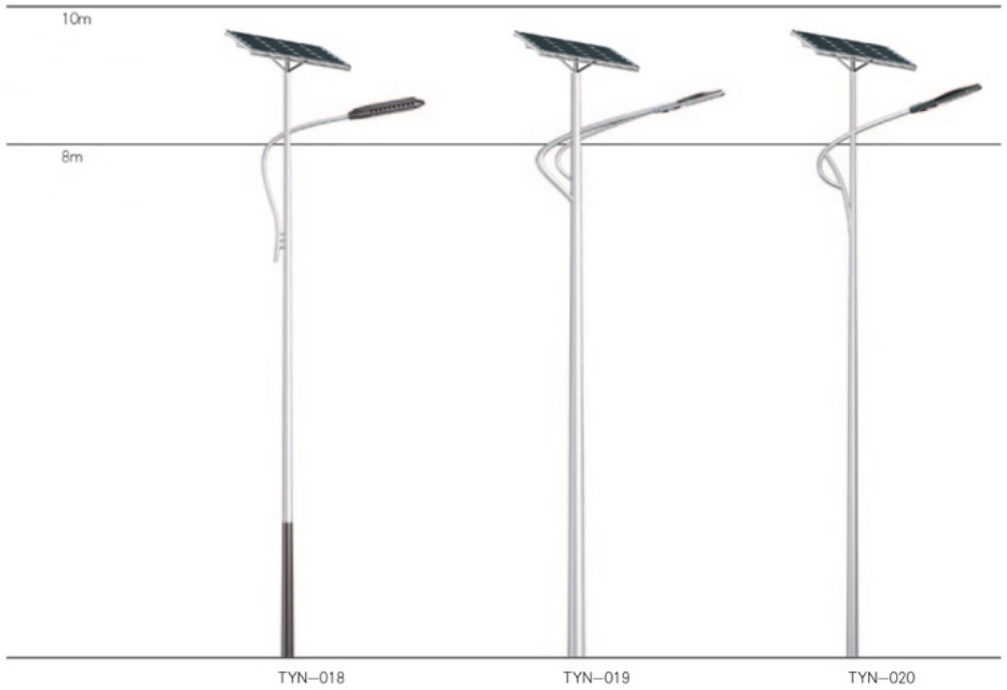


Product description

- Light source height: 6-12M
- Light source: high power LED
- Solar cell: high conversion rate monocrystalline silicon or polycrystalline silicon solar cell module
- Battery: sealed maintenance-free lead-acid battery
- Control system: micro computer intelligent control
- Lighting time: 8-10 hours
- Applicable area: the areas where annual sunshine time is more than 2200 hours
- Environment temperature: -20°- 60°
- Light pole material: high quality steel, and will be treated by hot-dip galvanization.
- Fan power: 400W

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TYN–017 6–12m LED



Product description

- Light source height: 5-8M
- Light source: high power LED
- Solar cell: high conversion rate monocrystalline silicon or polycrystalline silicon solar cell module
- Battery: sealed maintenance-free lead-acid battery
- Control system: micro computer intelligent control
- Lighting time: 8-10 hours
- Applicable area: the areas where annual sunshine time is more than 2200 hours
- Environment temperature: -20°- 60°
- Light pole material: high quality steel, and will be treated by hot-dip galvanization.

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TYN–021 5–8m LED



TYN—022 5—8m LED



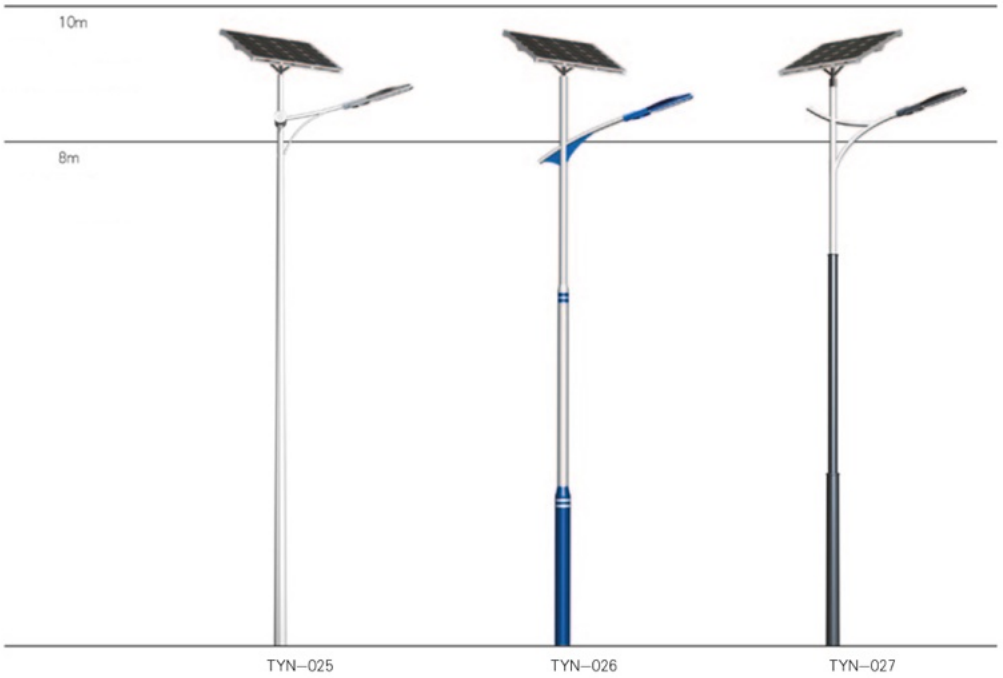
TYN—023 5—8m LED

SOLAR STREET LAMP



TYN—024 5—8m LED





Product description

- Light source height: 5-8M
- Light source: high power LED
- Solar cell: high conversion rate monocrystalline silicon or polycrystalline silicon solar cell module
- Battery: sealed maintenance-free lead-acid battery
- Control system: micro computer intelligent control
- Lighting time: 8-10 hours
- Applicable area: the areas where annual sunshine time is more than 2200 hours
- Environment temperature: -20°- 60°
- Light pole material: high quality steel, and will be treated by hot-dip galvanization.

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TYN—028 5—8m LED



TYN—029 5—8m LED



TYN—030 5—8m LED



TYN—031 5—8m LED



TYN—032 5—8m LED



TYN—033 3—4m LED

SOLAR COURTYARD LAMP

Product description

- Light source height: 3-4m
- Light source: high power LED
- Solar cell: high conversion rate monocrystalline silicon or polycrystalline silicon solar cell module
- Battery: sealed maintenance-free lead-acid battery
- Control system: micro computer intelligent control
- Lighting time: 8-10 hours
- Applicable area: the areas where annual sunshine time is more than 2200 hours
- Environment temperature: -20°- 60°
- Light pole material: high quality steel, and will be treated by hot-dip galvanization





TYN–035 3–4m LED



TYN–036 3–4m LED



TYN–037 3–4m LED



TYN–038 3–4m LED



TYN–039 3–4m LED



TYN–040 3–4m LED



TYN–041 3–4m LED



TYN–042 3–4m LED



TYN–043 TYN–044 TYN–045 TYN–046



TYN–047 TYN–048 TYN–049 TYN–050

SOLAR LAWN LAMP

Product description

- Solar panel: monocrystalline silicon or polycrystalline silicon
- Solar panel power: 2.5W
- Battery: high-efficient, reliable, and maintenance-free lead-acid battery
- Battery capacity: 6V 5Ah
- Light source: super-bright LED (color is optional)
- Control system: intelligent integrated circuit is adopted, with undervoltage protection
- Lighting time: ≥8 hours



TYN–051



TYN–052



TYN–053



TYN–054