



SOLAR LED STREET LAMP SOLUTION

QINSUN GLD350

Solar Street Light Pole



Features:

- Light pole height can be designed according to user environment
- Light pole using Q235A high quality steel plate, thickness 3.0mm;
- Light pole is made by one step splicing molding, head diameter $\Phi 60$ mm, bottom diameter $\Phi 160$ mm, with wind loading capacity over 10 class;
- The longitudinal weld adopts continuous automatic submerged arc welding, surface is smooth and seamless, without solder skips;
- The bottom is welded with flange thickness 10 ~ 18mm, and curved holes on flange, for docking to nuts;
- The internal and external surface of light pole is coated by hot-dip galvanized zinc coating, smooth and beautiful, and Zinc coating thickness $> 65\mu\text{m}$, which can offer 25-year anti-corrosion warranty;
- After Zinc coating, the surface of light pole is coated with pure polyester powder (color optional), enhance anti-corrosion performance.

GLD350 Street Light Solar Panel



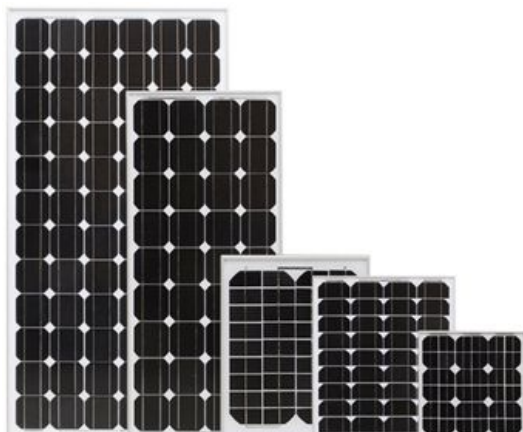
Features:

- Energy-efficient: compared with conventional lighting, LED consumes up to 85% less energy.
- Long life: last to 50,000h rated life or more, 50 times of incandescent bulbs, 8 times of fluorescent lamps.
- Weather proof: LED module reaches IP68, power supply reaches IP67, which provide maximum performance against rain, moisture, cold, corrosion and dust.
- Wide voltage range: AC220V type can operate within 90-3050V range.
- SMT technology: surface mounting technology keeps low working temperature of LED chip.
- Modular pluggable technology, tool-free onsite maintenance.
- Honeycomb briquette burning effect and the whole structure cooling technology.
- “Ultra Robust” module technology, single LED’s or unit’s damage doesn’t affect other units’ current.
- Multi-circuit constant-current driver, single module hot-plugable.
- Ergonomic light distribution to achieve even illuminating effect.
- Free serialization and various power solutions.
- Various application as tunnel lighting, street lighting or mining lighting, etc.
- Wide range of rated power, 6 classes from 80W to 280W.

Parameters:

LED Lighting	Product Code	GLD350-40	GLD350-60	GLD350-80
	Power	40W	60W	80W
	Efficiency	>93%		
	Input Voltage	DC 24V		
	LED Information	Philips-Lumileds, 18pcs	Philips-Lumileds,18pcsx2	Philips-Lumileds,18pcx2
	Color Temperature(K)	4100 & 6000		
	CRI	>80 & >75		
	Luminous Flux	3750 & 4000		
	Light Efficiency	>90 & >100		
	Beam Angle	125°		
	Junction Temperature (TJ)	< 90℃		
	Operating Temperature	-40℃~+50℃, 10%~90%RH		
	Storage Temperature	-40℃~+60℃		
	LED Lifespan	>50,000h		
	Housing Material	Aluminum		
	Dimension (mm)	485x330x90mm	590x330x90mm	
	Net Weight	6.3kg	8.3kg	
IP Grade	LED module IP68, driver IP66			
Constant-Current Driver	Power	40W	2*30W	2*40W
	Input Voltage	DC18-30V		
	Output Current	1.2A	2*0.9A	2*1.2A
	Output Voltage	27-36V		
	Output Over-Voltage Protection	39V		
	Efficiency	>93%		

Solar Panel



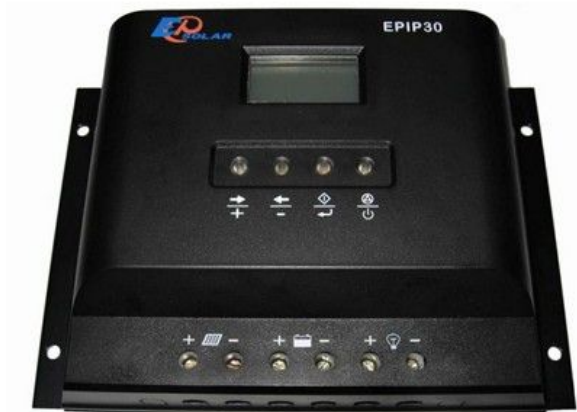
Features:

- The solar modules adopt high efficiency Mono-Crystalline silicon solar cells, with high transmission rate and low iron tempered glass, anti-aging EVA and excellent fire-resistance TPT, ensure its high performance;
- The solar module uses high quality anodized Aluminum frame, with features of high efficiency, long life, easy installation, wind-resistant, hail-resistant, etc. And the life span is between 15-20 years.
- The solar modules can withstand wind pressure of 2700Pa, and is absolutely no problem for wind 27m/s (equivalent to 10 class of Typhoon).
- The solar module bracket is installed on light pole with high quality bolts.

Parameters:

Parts	Parameter	40W Light/3M Pole/24 Hours	40W Light/3M Pole/48 Hours	60W Light/6M Pole/24 Hours	60W Light/6M Pole/48 Hours	80W Light/9M Pole/24 Hours	80W Light/9M Pole/48 Hours
Solar Panel	Output Voltage	2*60W	2*80W	2*90W	2*100W	2*100W	2*120W
	Working Voltage	DC35.5V					
	Max Working Voltage	1.5A	2.3A	2.5A	3A	3A	3.3A
	MPPT Voltage	33V					
	Short-Circuit Voltage	2A	3A	3.4A	4A	4A	4.5A
	Open-Circuit Voltage	DC42.6V					
	Max System Voltage	DC1000V(TUV);DC600V(UL)					
	Solar Type	Monocrystal silicon					
	Photoelectric Conversion Rate	>20%					
	Lifespan	20 years					

Intelligent Solar Charger



Features:

- The intelligent solar charger offers high efficient conversion of energy generated by the solar modules;
- The intelligent solar charger can control the charging and discharging of the battery effectively and intelligently.
- The intelligent solar charger is with features of over-charge protection, over-discharge protection, light control, time control, anti-reverse, trickle charging protection, under0-voltage protection, water protection and other protective, etc;
- With light control program, the light will be turned on when it's dark. Customers can set delay off time according to the actual needs. No manual control every day.

Parameters:

Intelligent Controller	Rated Working Voltage	24V
	Rated Working Current	10A
	Over-charging Voltage	28.8V±0.2V
	Open-Circuit Voltage	50V
	Over-charging Recover Voltage	27.2V±0.2V
	Over-discharging Voltage	21.6V±0.2V
	Over-discharging Recover Voltage	24.6V±0.2V
	No-Loading Current	<10mA
	Operating Sea Level	<5000m
	Ambient Temperature	-20℃---+50℃
	Control Mode	Light Control or Time Control(Adjustable)

Lead-Acid Battery of Maintenance-Free



Features:

- Maintenance-free VRLA batteries (Gel battery is optional);
- The battery is sealed with special waterproof box, which can be installed underground, economic and beautiful;
- The rated voltage of battery is 12V/24V, capacity ranging from 5AH-200AH above;
- Service life:> 500 cycles.

Parameters:

Lead-Acid Battery	Capacity	2*12V/55AH	2*12V/100AH	2*12V/80AH	2*12V/120AH	2*12V/120AH	2*12V/150AH
	Compound Mode	Series Connection					
	Output Voltage	DC24V					
	Lifespan	>500 cycles					