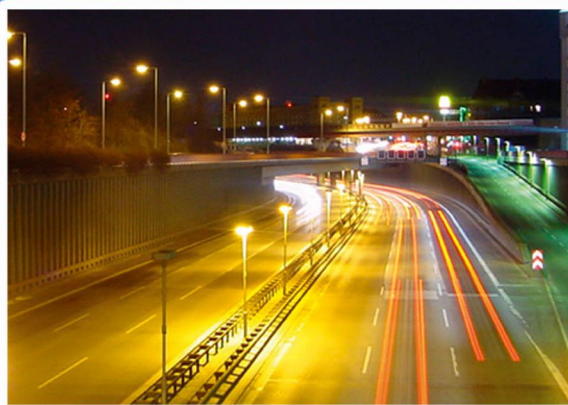


GECO[®]

SOLAR STREET LIGHTINGS





SOLAR STREET LIGHTINGS



Solar street lamps

Solar street lamps use high-effect monocrystalline silicon or polycrystalline silicon solar modules for power supply, The electricity is stored in high-efficiency, sealed and maintenance-free battery. The advanced automatic controller (inverter) specially used for solar street lamps, high-effect lighting source (**high-effect energy-saving lamps, high and low voltage sodium lamp, metal halogen lamp, electrodeless lamp or LED**), and over striking and thickening special lampposts put together make the street lamps function as light control and time control.

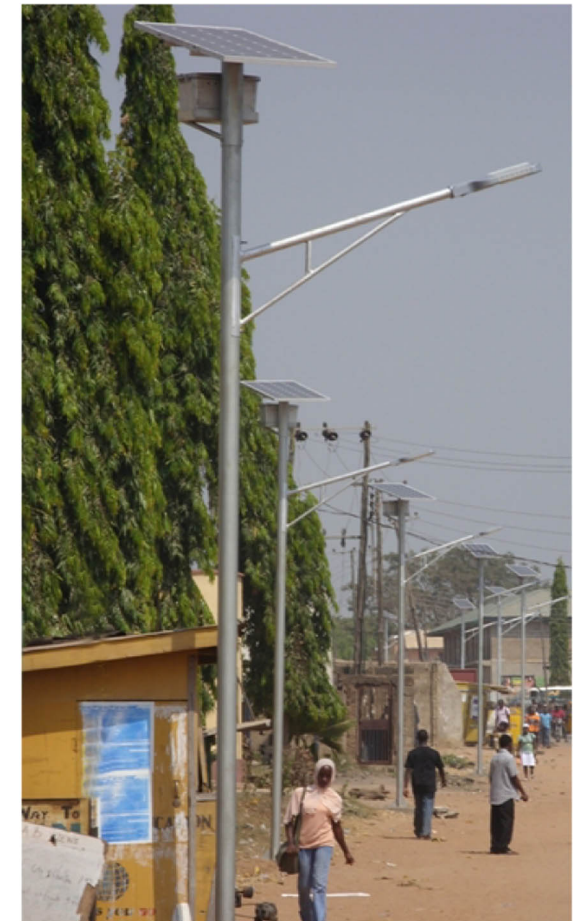
In the daytime they automatically charges and at night they will give light on their own. Solar street lamps are characterized by energy-saving and environmental protection, easy installation, no need of construction and laying of cables, no need of charges, reliable low-voltage power supply and long service life (solar batter can serve for 20-25 areas, on sunny days, charging for one day may last for 5-10 days. There lamps may be widely used for lighting in squares, urban streets, housing estates, parks and scenic, urban and rural roads and factory areas.



SOLAR STREET LIGHTINGS

28W SOLAR LED STREET LIGHT

Components	Technical Parameters	Memo
Solar panel	Rated power	85W
	Rated voltage	17.5V±0.5V
	Rated current	2.29-2.57A
	Open circuit voltage	21.5V
	Short circuit current	2.58-2.91A
	Working temperture	- 40°C ~+85°C
	Cell efficiency	18%
	Solar panel Type	Mono-silicon A
Light source	20W LED lamp, made of Dia8mm double chip LED,super bright, brightness adjustable.	Life span: 50000 H
	lm: 1900lm	
	Center point Reflected on the floor : 12-15Lux	
	color temperture:3000k-6500k adjustable	
Battery	12V / 85AH-120AH Lead-acid battery,maintenace-free	Life span: 5 years
Controller	24V / 5A, automatically time and light control, overcharge and overdischarge protection Current limiting control	Life span: 10 years
Pole	Φ4mm thickness , 5-6 Meters height, Material: Galvanized steel frame with powder coated anti-corrosion	Life span: 30 years
Weather condition	Daily sunshin time: 8 Hours/day,	
Working condition	8 -12 Hours/day, 3-5 continous raining days	
Price		





SOLAR STREET LIGHTINGS

28W SOLAR LED STREET LIGHT

Components	Technical Parameters	Memo
Solar panel	Rated power	100W
	Rated voltage	21V±0.5V
	Max-Power current	1.38A
	Open circuit voltage	21.5V
	Short circuit current	1.53A
	Working temperture	- 40°C ~+85°C
	Cell efficiency	18%
	Solar panel Type	Mono-silicon A
Light source	24W LED lamp, made of Dia8mm double chip LED,super bright, brightness adjustable.	Life span: 50000 H
	Im: 2352	
	Center point Reflected on the floor : 10-12Lux	
	color temperture:3000k-6500k adjustable	
Battery	12V / 100AH-140AH Lead-acid battery,maintenace-free	Life span: 5 years
Controller	24V / 5A, automatically time and light control, overcharge and overdischarge protection Current limiting control	Life span: 10 years
Pole	Φ3.5mm(±0.3mm) thickness , 5-6 Meters height, Material: Galvanized steel frame with powder coated anti-corrosion	Life span: 30 years
Weather condition	Daily sunshin time: 10-12Hours/day,	
Working condition	8 -12 Hours/day, 3-5 continous raining days	
Accessory	All necessary cables, cable joints and screw bolts, packing etc.	
Price		





SOLAR STREET LIGHTINGS

28W SOLAR LED STREET LIGHT

Components	Technical Parameters	Memo
Solar panel	Rated power	110W
	Rated voltage	17.5V±0.5V
	Rated current	2.29-2.57A
	Open circuit voltage	21.5V
	Short circuit current	2.58-2.91A
	Working tempreture	- 40°C ~+85°C
	Cell efficiency	18%
	Solar panel Type	Mono-silicon A
Light source	28W LED lamp, made of Dia8mm double chip LED,super bright, brightness adjustable.	Life span: 50000 H
	LM: 2744	
	Center point Reflected on the floor : 12-15Lux color tempreture:3000k-6500k adjustable	
Battery	12V / 110AH -160AH Lead-acid battery,maintenace-free	Life span: 5 years
Controller	24V / 5A, automatically time and light control, overcharge and overdischarge protection Current limiting control	Life span: 10 years
Pole	Φ4mm thickness , 5-6 Meters height, Material: Galvanized steel frame with powder coated anti-corrosion	Life span: 30 years
Weather condition	Daily sunshin time: 10-12Hours/day,	
Working condition	8-12 Hours/day, 3-5 continous raining days	
Accessory	All necessary cables, cable joints and screw bolts, packing etc.	
Price		





SOLAR STREET LIGHTINGS

32W SOLAR LED STREET LIGHT

Components	Technical Parameters	Memo
Solar panel	Rated power	130W
	Rated voltage	17.5V±0.5V
	Rated current	3.43-3.71A
	Open circuit voltage	21.5V
	Short circuit current	3.88-4.20A
	Working temperture	- 40°C ~+85°C
	Cell efficiency	18%
	Solar panel Type	Mono-silicon A
Light source	32W LED lamp, made of Dia5mm LED,super bright, brightness adjustable.	Life span: 50000 H
	LM:3136	
	Center point Reflected on the floor : 17-20 Lux	
	color temperture:3000k-6500k adjustable	
Battery	12V / 125AH -185AH Lead-acid battery,maintenace-free	Life span: 5 years
Controller	24V / 10A, automatically time and light control, overcharge and disovercharge protection Current limiting control	Life span: 10 years
Pole	Φ4mm thickness , 6-8 Meters height, Material: Galvanized steel frame with powder coated anti-corrosion	Life span: 30 years
Weather condition	Daily sunshin time: 10-12Hours/day,	
Working condition	8 -12 Hours/day, 3-5 continous raining days	
Accessory	All necessary cables, cable joints and screw bolts, packing etc.	
Price		





SOLAR STREET LIGHTINGS

36W SOLAR LED STREET LIGHT

Components	Technical Parameters	Memo
Solar panel	Rated power	150W
	Rated voltage	17.5V±0.5V
	Rated current	3.43-3.71A
	Open circuit voltage	21.5V
	Short circuit current	3.88-4.20A
	Working temperture	- 40°C ~+85°C
	Cell efficiency	18%
	Solar panel Type	Mono-silicon A
Light source	36W LED lamp, made of Dia5mm LED,super bright, brightness adjustable.	
	LM:3528	
	Center point Reflected on the floor : 17-20 Lux	
	color temperture:3000k-6500k adjustable	
Battery	12V / 140AH-210AH Lead-acid battery,maintenace-free	Life span: 5 years
Controller	24V /10A, automatically time and light control, overcharge and disovercharge protection Current limiting control	Life span: 10 years
Pole	Φ4mm thickness , 6-8 Meters height, Material: Galvanized steel frame with powder coated anti-corrosion	Life span: 30 years
Weather condition	Daily sunshin time: 10-12Hours/day,	
Working condition	8-12 Hours/day, 3-5 continous raining days	
Accessory	All necessary cables, cable joints and screw bolts, packing etc.	
Price		





SOLAR STREET LIGHTINGS

40W SOLAR LED STREET LIGHT

Components	Technical Parameters	Memo
Solar panel	Rated power	160W
	Rated voltage	17.5V±0.5V
	Rated current	3.43-3.71A
	Open circuit voltage	21.5V
	Short circuit current	3.88-4.20A
	Working temperture	- 40℃ ~+85℃
	Cell efficiency	18%
	Solar panel Type	Mono-silicon A
Light source	40W LED lamp, made of Dia5mm LED,super bright, brightness adjustable.	Life span: 50000 H
	LM:3931	
	Center point Reflected on the floor : 17-25 Lux	
	color temperture:3000k-6500k adjustable	
Battery	12V / 150AH-230AH Lead-acid battery,maintenace-free	Life span: 5 years
Controller	24V / 10A, automatically time and light control, overcharge and disovercharge protection Current limiting control	Life span: 10 years
Pole	Φ4mm thickness , 6-8 Meters height, Material: Galvanized steel frame with powder coated anti-corrosion	Life span: 30 years
Weather condition	Daily sunshin time: 10-12Hours/day,	
Working condition	8 -12 Hours/day, 3-5 continous raining days	
Accessory	All necessary cables, cable joints and screw bolts, packing etc.	
Price		





SOLAR STREET LIGHTINGS

48W SOLAR LED STREET LIGHT

Components	Technical Parameters	Memo
Solar panel	Rated power	180W
	Rated voltage	35V±0.5V
	Rated current	2.81A
	Open circuit voltage	43.9V
	Short circuit current	3.08A
	Working temperature	- 40°C ~+85°C
	Cell efficiency	18%
	Solar panel Type	Mono-silicon A
Light source	48W LED lamp, made of Dia5mm LED,super bright, brightness adjustable.	Life span: 50000 Hrs
	LM:4296	
	Center point Reflected on the floor : 17-25 Lux	
	color temperture:3000k-6500k adjustable	
Battery	12V / 165AH -275AH Lead-acid battery,maintenace-free	Life span: 5 years
Controller	24V / 10A, automatically time and light control, overcharge and overdischarge protection Current limiting control	Life span: 10 years
Pole	Φ4mm thickness , 6-8 Meters height, Material: Galvanized steel frame with powder coated anti-corrosion	Life span: 30 years
Weather condition	Daily sunshin time: 10-12Hours/day,	
Working condition	8-12 Hours/day, 3-5 continous raining days	
Accessory	All necessary cables, cable joints and screw bolts, packing etc.	
Price		

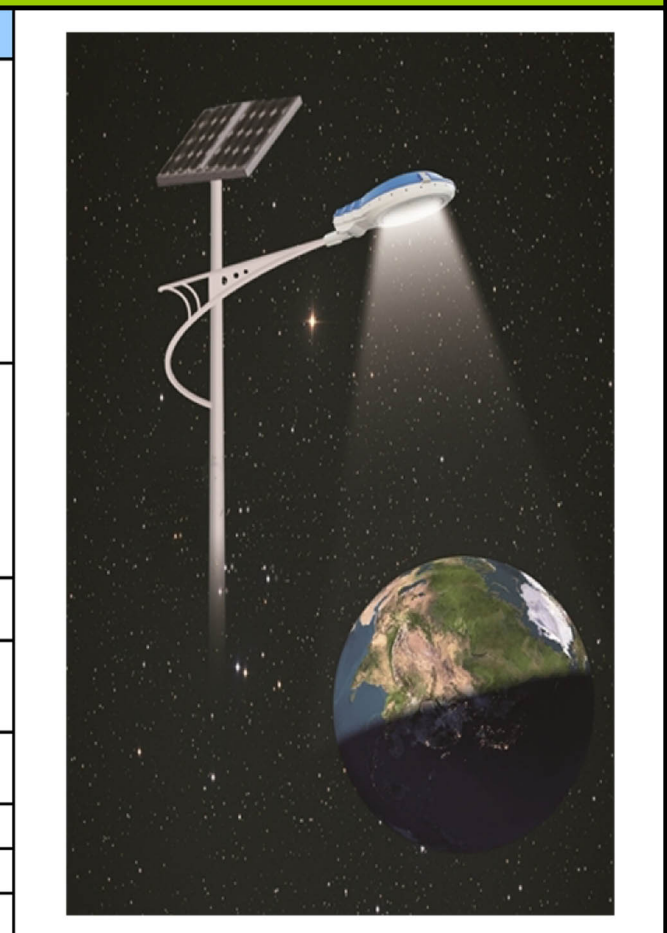




SOLAR STREET LIGHTINGS

56W SOLAR LED STREET LIGHT

Components	Technical Parameters	Memo
Solar panel	Rated power	220W
	Rated voltage	35V±0.5V
	Rated current	3.66A
	Open circuit voltage	43.8V
	Short circuit current	4.02A
	Working tempreture	- 40℃ ~+85℃
	Cell efficiency	18%
	Solar panel Type	Mono-silicon A
Light Source	56W LED lamp, made of Dia5mm LED,super bright, brightness adjustable.	
	LM:5300	
	Center point Reflected on the floor : 25-28 Lux	
	color tempreture:3000k-6500k adjustable	
Battery	12V / 200AH-320AH Lead-acid battery,maintenace-free	Life span: 5 years
Controller	24V / 15A, automatically time and light control, overcharge and overdischarge protection	Life span: 10 years
Pole	Φ4mm thickness , 6-8Meters height, Material: Galvanized steel frame with powder coated anti-corrosion	Life span: 30 years
Weather condition	Daily sunshin time: 10-12Hours/day,	
Working condition	8 -12 Hours/day, 3-5 continous raining days	
Accessory	All necessary cables, cable joints and screw bolts, packing etc.	
Price		





SOLAR STREET LIGHTINGS

72W SOLAR LED STREET LIGHT

Components	Technical Parameters	Memo
Solar panel	Rated power	260W(100W*2)
	Rated voltage	35V±0.5V
	Rated current	5.7A
	Open circuit voltage	44V
	Short circuit current	6.5A
	Working tempreture	- 40℃ ~+85℃
	Cell efficiency	18%
	Solar panel Type	Mono-silicon A
Light Source	72W LED lamp, made of Dia5mm LED,super bright, brightness adjustable.	Average Life Span: 50000 Hrs
	LM:7078	
	Center point Reflected on the floor : 30-50 Lux	
	color tempreture:3000k-6500k adjustable	
Battery	24V / 300AH (150AH*2)----400AH Lead-acid battery,maintenace-free	Life span: 5 years
Controller	24V / 15A, automatically time and light control, overcharge and overdischarge protection Current limiting control	Life span: 10 years
Pole	Φ4mm thickness , 6-8 Meters height, Material: Galvanized steel frame with powder coated anti-corrosion	Life span: 30 years
Weather condition	Daily sunshin time: 10-12Hours/day,	
Working condition	8-12 Hours/day, 3-5 continous raining days	
Accessory	All necessary cables, cable joints and screw bolts, packing etc.	
Price		





SOLAR STREET LIGHTINGS

80W SOLAR LED STREET LIGHT

Components	Technical Parameters	Memo
Solar panel	Rated power	280W
	Rated voltage	35V±0.5V
	Rated current	3.66A
	Open circuit voltage	43.8V
	Short circuit current	4.02A
	Working temperture	- 40°C ~+85°C
	Cell efficiency	18%
	Solar panel Type	Mono-silicon A
Light Source	80W LED lamp, made of Dia5mm LED,super bright, brightness adjustable.	Average Life Span: 50000 Hrs
	LM: 7865	
	Center point Reflected on the floor : 30-50 Lux	
	color temperture:3000k-6500k adjustable	
Battery	12V / 300AH-440AH Lead-acid battery,maintenace-free	Life span: 5 years
Controller	24V / 15A, automatically time and light control, overcharge and overdischarge protection Current limiting control	Life span: 10 years
Pole	Φ4mm thickness , 6-8 Meters height, Material: Galvanized steel frame with powder coated anti-corrosion	Life span: 30 years
Weather condition	Daily sunshin time: 10-12Hours/day,	
Working condition	8 -12 Hours/day, 3-5 continous raining days	
Accessory	All necessary cables, cable joints and screw bolts, packing etc.	
Price		



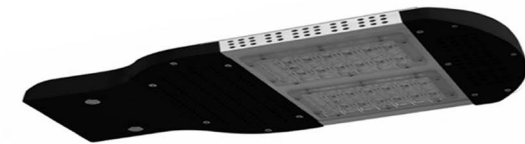


SOLAR STREET LIGHTINGS

GLC-LD01 (Two modules)

Specifications	548x285x80(mm)		
Packing Specifications	625x340x150 (mm)		
Net Weight	6.81kg		
Packing Weight	7.6kg		
LED Total Power	40 W	48 W	56 W
Input Total Power	44 W	56 W	64 W
(Lx) Illuminance	6m	26,1	33,2
	8m	14,7	18,7
	10m	9,4	11,9
	12m	6,5	8.3
	14m	4,8	6.1
(lm) Luminous Flux	3879	4868	5548
Liiuminated Area	6m : 26m x 12m ; 8m : 36m x 14m ; 10m : 42m x 16m ; 12m : 48m x 18m		
Illuminance uniformity	> 0.6		
Input Voltage	AC90V--264V . DC9V--30V		
Input Voltage	90%		
Current	Single 325mA		
LED Single Power	1W		
Color Temperature	3000K—3500K (Warm white) 4000—5000k(white by yellow) 5500K—6500K(cold white)		
LED Single efficiency	110Lm/W		
Temperature	-35°C ~ 50°C		
Lamp Temperature	< 50°C		
Idemitsu Persperature	Horizontal:145° ; Vertical:65°		
Efficiency	> 90%		
Power Factor	> 0.95		
Protection Grade	IP65		
Faculan Shape	Zoster Facula		

Air Convection Radiator High Efficiency LED Street Lights



TWO MODULES



SOLAR STREET LIGHTINGS

GLC-LD02 (Four modules)

Specifications	699x285x80(mm)		
Specifications	780x340x150(mm)		
Net Weight	9.04kg		
Packing Weight	10.06kg		
LED Total Power	80 W	96 W	112 W
Input Total Power	93 W	111 W	123 W
Illuminance (Lx)	6m	55,1	66,1
	8m	31	37,2
	10m	19,8	23,8
	12m	13,8	16,5
	14m	10,1	12,1
(lm) Luminous Flux	8068	9678	10834
Liiuminated Area	6m : 26m x 12m ;8m : 36m x 14m ; 10m : 42m x 16m ; 12m : 48m x 18m		
uniformity	> 0.6		
Input Voltage	AC90V--264V . DC9V--30V		
Input Voltage	90%		
Current	Single 325mA		
LED Single Power	1W		
Color Temperature	3000K—3500K (Warm white) 4000—5000k(white by yellow) 5500K—6500K(cold white)		
LED Single efficiency	110Lm/W		
Temperature	—35°C ~ 50°C		
Lamp Temperature	< 50°C		
Idemitsu	Horizontal:145° ; Vertical:65°		
Efficiency	> 90%		
Power Factor	> 0.95		
Protection Grade	IP65		
Faculan Shape	Zoster Facula		

Air Convection Radiator High Efficiency LED Street Lights



FOUR MODULES



SOLAR STREET LIGHTINGS

GLC-LD03 (Six modules)

Specifications	850x285x80(mm)		
Packing Specifications	925x340x150 (mm)		
Net Weight	10.98kg		
Packing Weight	12.12kg		
LED Total Power	120 W	144W	168 W
Input Total Power	132 W	157W	179 W
(Lx) Illuminance	6m	77,8	95,0
	8m	43,8	53,5
	10m	28	34,2
	12m	19,4	23,7
	14m	14,3	17,5
(lm) Luminous Flux	11434	13920	15900
Liiuminated Area	6m : 26m x 12m ;8m : 36m x 14m ; 10m : 42m x 16m ; 12m : 48m x 18m		
Illuminance uniformity	> 0.6		
Input Voltage	AC90V--264V . DC9V--30V		
Input Voltage	90%		
Current	Single 325mA		
LED Single Power	1W		
Color Temperature	3000K—3500K (Warm white) 4000—5000k(white by yellow) 5500K—6500K(cold white)		
LED Single efficiency	110Lm/W		
Temperature	—35℃ ~50℃		
Lamp Temperature	< 50℃		
Idemitsu Persperature	Horizontal:145° ; Vertical:65°		
Efficiency	> 90%		
Power Factor	> 0.95		
Protection Grade	IP65		
Faculan Shape	Zoster Facula		

Air Convection Radiator High Efficiency LED Street Lights



SIX MODULES

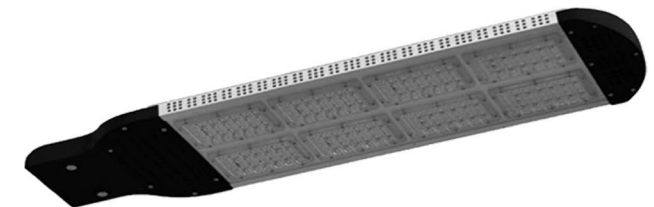


SOLAR STREET LIGHTINGS

GLC-LD04 (Eight modules)

Specifications	1001x285x80(mm)		
Packing Specifications	1080x340x150(mm)		
Net Weight	12.93kg		
Packing Weight	14.18kg		
LED Total Power	192 W	224 W	
Input Total Power	200 W	255 W	
(Lx) Illuminance	6m	121,5	149,8
	8m	68,4	84,3
	10m	43,7	53,9
	12m	20,4	37,4
	14m	22,3	27,5
(lm) Luminous Flux	17845	22030	
Liiuminated Area	6m : 26m x 12m ; 8m : 36m x 14m ; 10m : 42m x 16m ; 12m : 48m x 18m		
Illuminance uniformity	> 0.6		
Input Voltage	AC90V--264V . DC9V--30V		
Input Voltage	90%		
Current	Single 325mA		
LED Single Power	1W		
Color Temperature	3000K—3500K (Warm white) 4000—5000k(white by yellow) 5500K—6500K(cold white)		
LED Single efficiency	110Lm/W		
Temperature	-35°C ~ 50°C		
Lamp Temperature	< 50°C		
Idemitsu Persperature	Horizontal:145° ; Vertical:65°		
Efficiency	> 90%		
Power Factor	> 0.95		
Protection Grade	IP65		
Faculan Shape	Zoster Facula		

Air Convection Radiator High Efficiency LED Street Lights



EIGHT MODULES

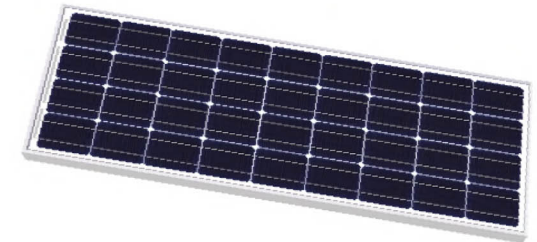


SOLAR STREET LIGHTINGS

MONO-CRYSTALLINE SOLAR PANEL

MODEL	Pm(Wp)	Tolerance	Vm (V)	Im (A)	Voc (V)	Isc (A)	PRICE
SYP60S-M	60 W	± 3%	16,80	3,57	21,00	3,86	
SYP75S-M	75W	± 3%	17,20	4,36	21,60	4,87	
SYP80S-M	80W	± 3%	17,20	4,65	21,60	5,00	
SYP85S-M	85W	± 3%	17,60	4,83	21,90	5,14	
SYP90S-M	90W	± 3%	18,00	5,00	22,40	5,30	
SYP100S-M	100W	± 3%	21,9	4,58	26,5	5,10	
SYP165S-M	165W	0~+3%	35,82	4,61	44,00	5,10	
SYP170S-M	170W	0~+3%	35,90	4,74	44,50	5,12	
SYP175S-M	175W	0~+3%	36,00	4,86	44,80	5,17	
SYP180S-M	180W	0~+3%	36,70	4,91	45,00	5,32	
SYP185S-M	185W	0~+3%	36,20	5,11	45,00	5,40	
SYP190S-M	190W	0~+3%	36,60	5,19	45,10	5,57	
SYP195S-M	195W	0~+3%	36,80	5,30	45,30	5,60	
SYP200S-M	200W	0~+3%	37,00	5,40	45,50	5,86	
SYP220S-M	220W	0~+3%	48,00	4,59	59,50	4,82	
SYP225S-M	225W	0~+3%	48,10	4,68	59,70	4,95	
SYP230S-M	230W	0~+3%	48,20	4,78	59,80	5,06	
SYP235S-M	235W	0~+3%	48,30	4,87	59,90	5,12	
SYP240S-M	240W	0~+3%	48,40	4,96	60,00	5,26	
SYP245S-M	245W	0~+3%	48,50	5,06	60,10	5,34	
SYP250S-M	250W	0~+3%	48,60	5,15	60,30	5,45	
SYP255S-M	255W	0~+3%	48,70	5,24	60,40	5,53	
SYP260S-M	260	0~+3%	48,80	5,33	60,50	5,66	

MONO-CRYSTALLINE SOLAR PANEL



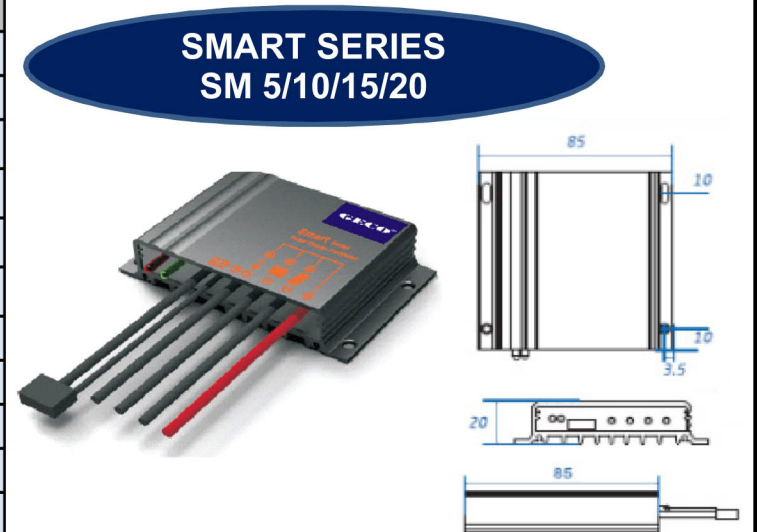
Data sheet tested by BERGER module simulator at STC: AM 1.5 , 1000W/m² , 25 °C



SOLAR STREET LIGHTINGS

SMART SERIES SM 20

Model	Specification	Price
	Max solar current rating : 5A(SM05), 10A(SM10), 15A(SM15),20A(SM20)	
	System Voltage : 12V/24V auto recognition	
	Fast Voltage : 14.0/29.0 V (25°C)	
	Boost Voltage : 14.0/29.0 V (25°C)	
	Equalization Voltage : 14.8/29.6V (25°C) (liquid)	
	Float Voltage : 13.7/27.4V (25°C)	
	Load Disconnection Voltage :10.0-11.9V/21.6-23.0V (programmable)	
Smart Series	Load Reconnect Voltage : 12.0-13.2V/24.0-25.4V (programmable)	
SM 05	Over Voltage Protection :15.5/21V	SM 05 ()
SM 10	Working time during night : 0-19 hours (programmable)	SM 10 ()
SM 15	Day/night threshold: 3.0-7.5V/6.0-15.0V (programmable)	SM 15 ()
SM 20	Battery type : Liquid, gel	SM 20 ()
	Temperature compensation : -4.17mV/K per cell (boost,equalization)	
	- 3.33 mV/K per cell (float)	
	Max.solar voltage : 55V	
	Max. battery voltage : 40V	
	Dimension : 85 x 70 x 20 mm, Weight ; 200 g	
	Own Consumption : 10 mA	
	Ambien Temperature : -40 °C - 50 °C	
	Max Altitude : 4000 m	
	Protection : IP67	



Feature :

- IP67< strong and durable aluminium case
- 12V/24V automatic recognition
- 3 modes for solar street light system
- Dimming function 30-70 % of rated power adjustable (work with dragon series constant current driver)
- digital unit to configure smart series controller via UART
- External temperature sensor, automatic temperature compensation
- four stage charge way: fast, boost, equalization, float
- full automatic electronic protect function



SOLAR STREET LIGHTINGS

