

One Stop Solution Of Photovoltaic



Exhibition Display



Shenzhen 2017

Shenzhen 2017

Shenzhen 2017



Shenzhen 2013



Shenzhen 2013



Shenzhen 2013



Brazil 2014



Hong Kong 2015



Hong Kong 2014



Dubai 2013



India 2012



India 2012

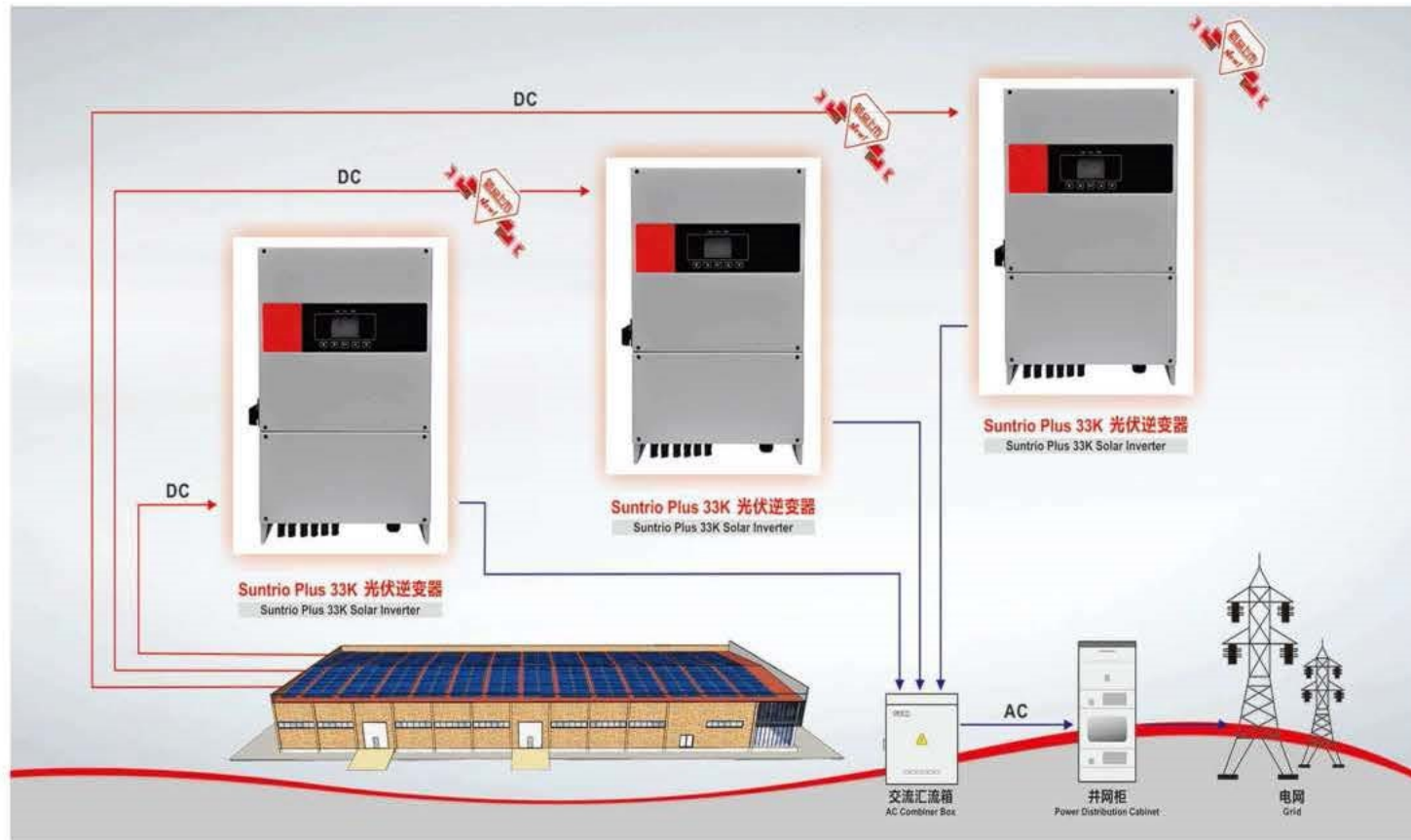
Solar Module



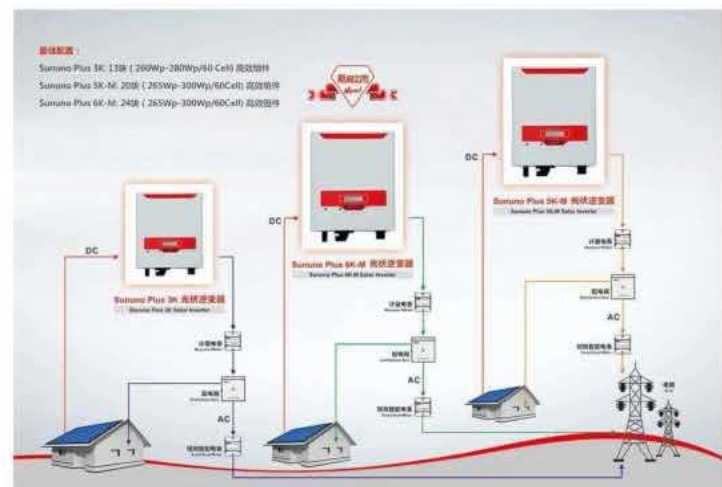
The production of solar panels requires 10 steps: 1, sorting and testing of solar cells, and this is a very critical step. Because the quality of the whole solar panel is directly determined by the good or bad quality of the battery chip, single soldering 3, string welding 4, lamination 5, initial inspection 6, lamination 7, edge trimming to ensure that the edges of the module are neat, and the excess parts of the silica gel need to be cut off. Make sure the edges are smooth. 8, assemble the border and install the junction box 9, finished test 10, clean the packaging. Scientific production process and strict quality control to ensure the quality of solar panels. Our solar panels are characterized by high conversion efficiency, long life, stable output of electrical performance parameters and reliable quality.

On Grid Solar System

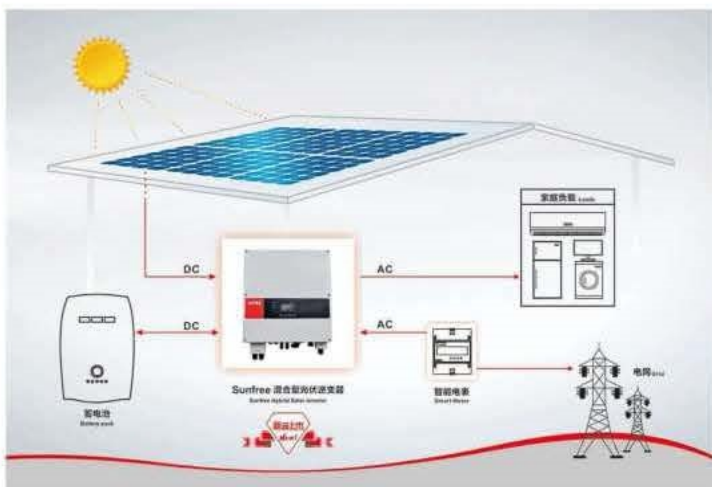
100kW 100kW Solar Energy System



3/5/6kW 3/5/6kW Solar Energy System



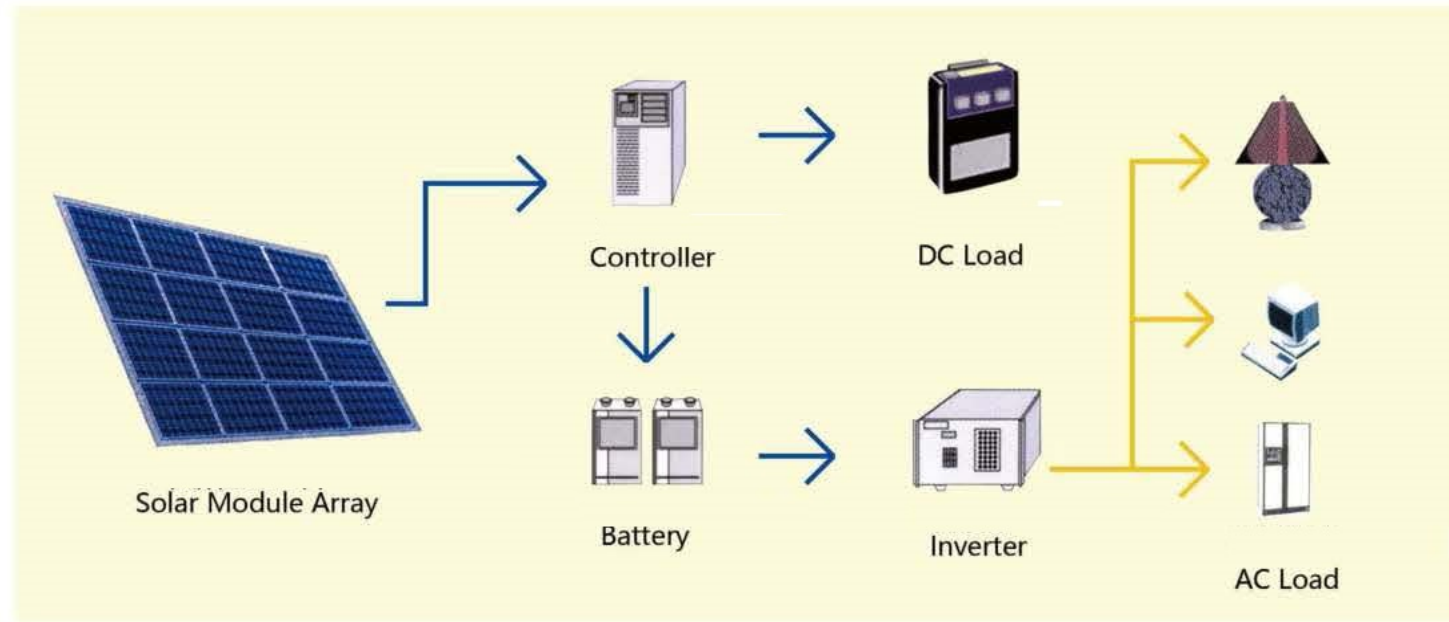
Smart Solar Energy Storage System



Case Shows



Off-Grid Solar System



1K-10KW Off-Grid Solar System 1k-10kw

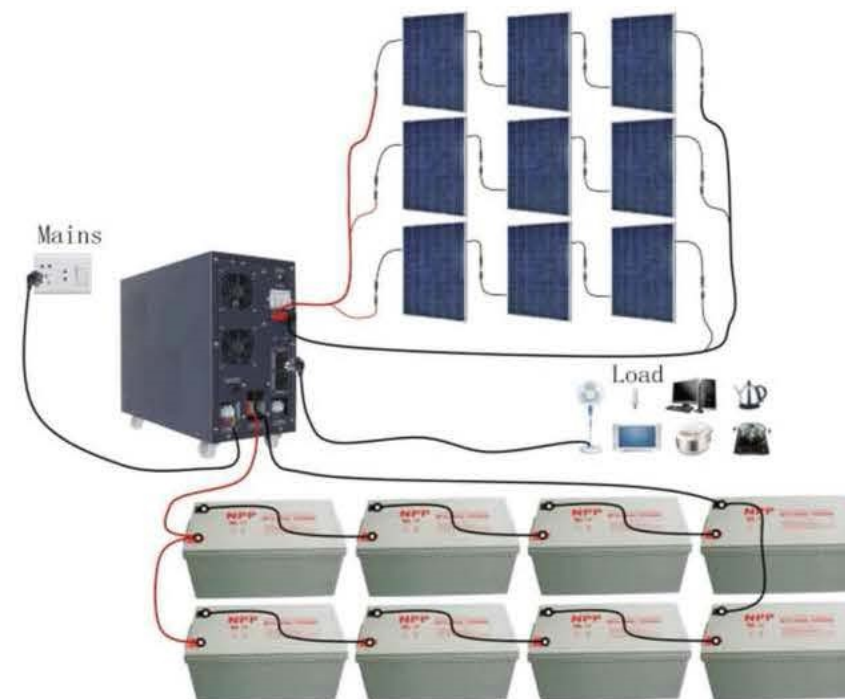


Solar panels are used extensively in rural areas, where access to the grid is non-existent or inaccessible. These installations are called off-grid or independent solar power systems. The off-grid system can also connect to the government power grid. This installation is called an off-grid hybrid solar power system. Off-grid or off-grid hybrid solar power systems require the use of batteries to store energy for use at night or when there is a power cut or on long stretches of overcast weather. The off-grid system can also work together with a wind power system to power residential or commercial use. There is no need to apply for an authority letter from the government to install the off-grid system. You can decide the power of the off-grid system according to your leisure roof top space and power demand.

Off-grid system installation warning:

1. The DC voltage of all the system equipment should be in accordance.
2. The AC voltage of the inverter should be in accordance with the local voltage of the grid power.
3. The output power of the inverter should be greater than the total load power (Suggested to be 1.5-2 times greater than the load power).

For example: The total load of the household appliance is 3kw, the power of the inverter is suggested to be 5kw.



200W-2KW

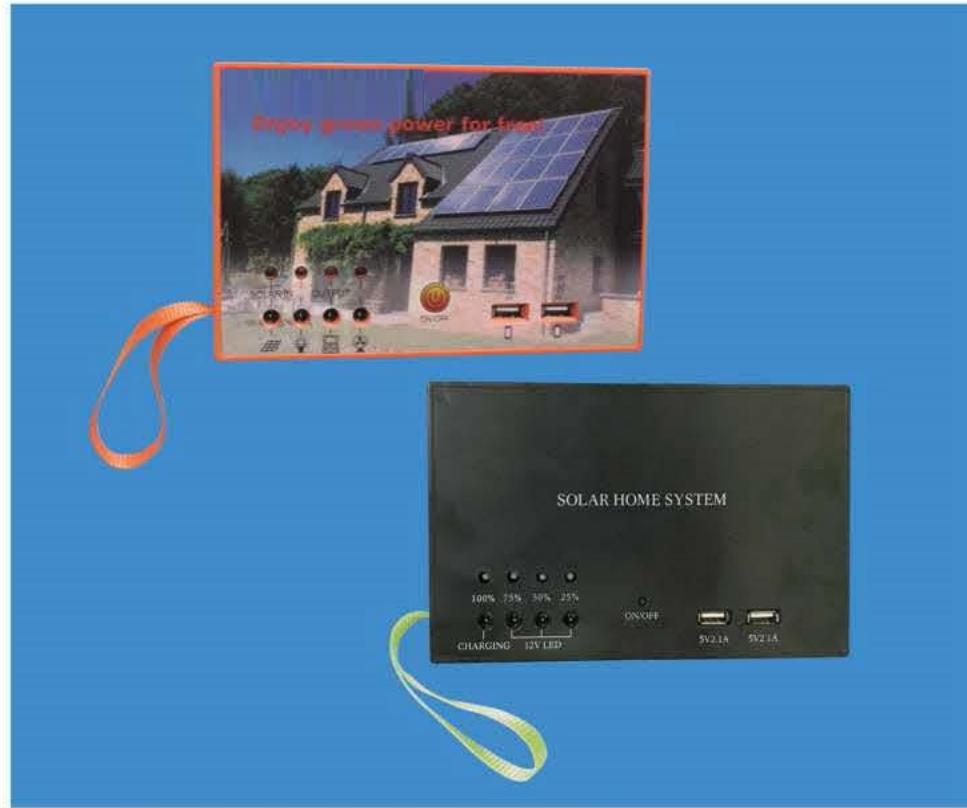
Off Grid System All In One



DC System All In One



Lithium Battery DC Solar Kit



System Box



10W/18V
Solar Panel 10W/18V



LED



System Box



Solar Panel 5W/6V

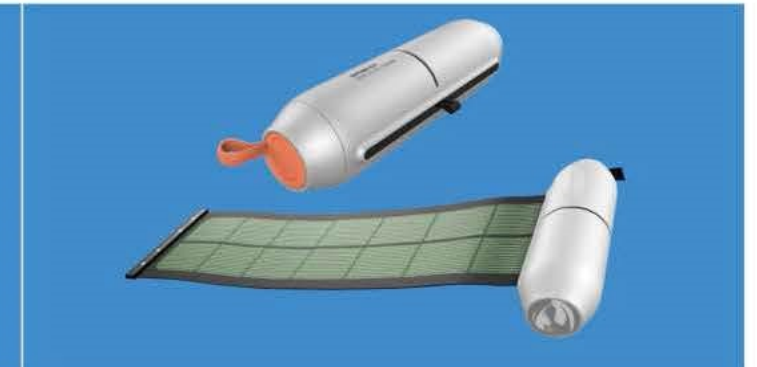


LED

Hot-Sale Product



Solar Speaker System



Flexible Solar Charger



Folding Solar Panel



Solar DC System



Bluetooth Speaker Flashlight



Foldable Solar Charger



Solar Air Conditioning



Solar Refrigerator



Fan



Fan

Hot-Sale Product

			
Solar Backpack	Solar Backpack		
			
Solar Backpack	Solar Backpack		
			
Solar Backpack	Solar Power Bank		
			
Solar Backpack	Solar Backpack	Solar Hat	Solar Backpack

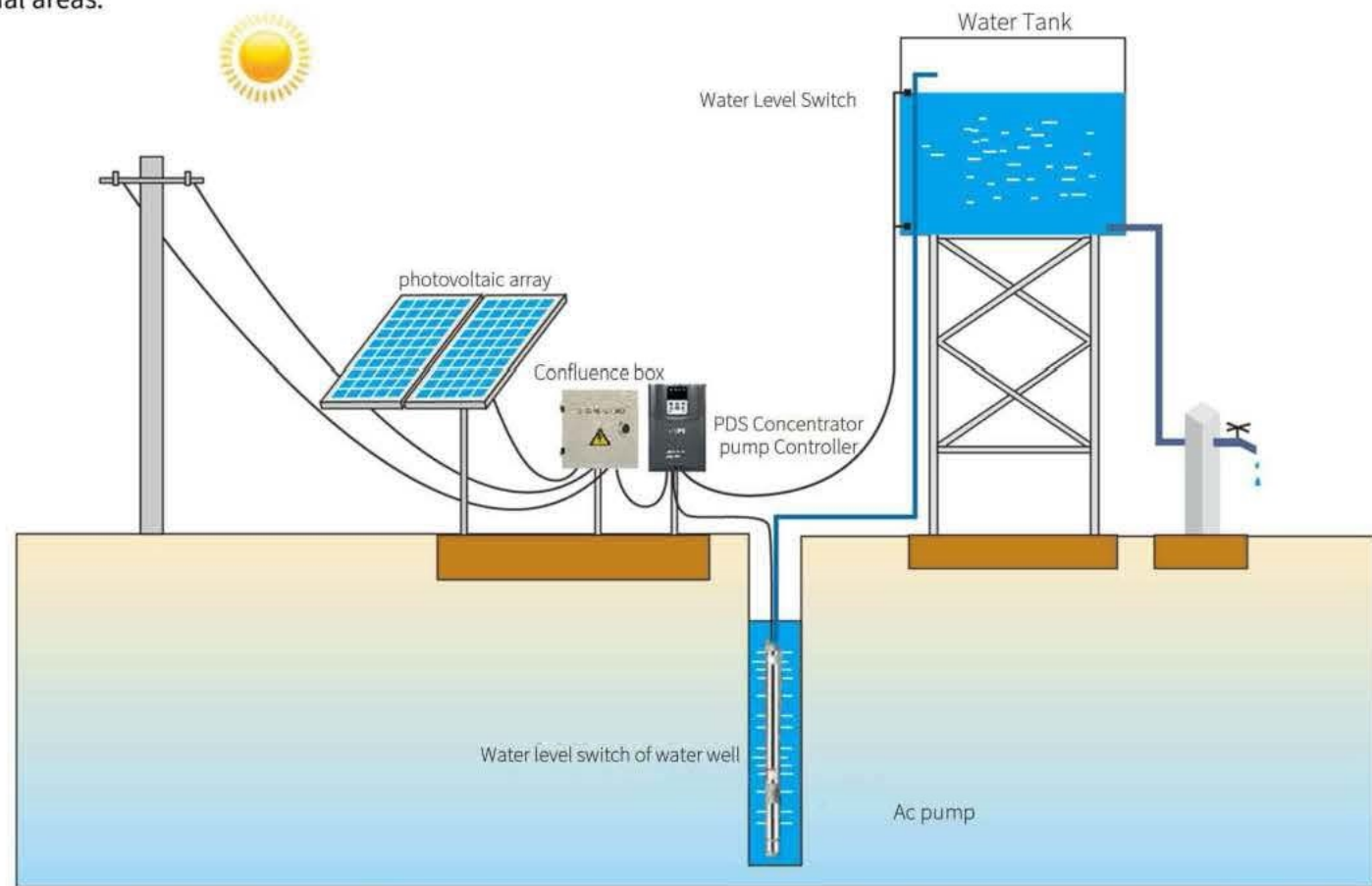
Hot-Sale Product

			
Solar Wall Light	Solar Wall Light		
			
Solar Ventilator	Solar Spotlight		
			
Solar Wall Light	Solar Street Light		
			
Solar Camping Light	Solar Camping Light	Solar Street Light	Solar Floodlight

Introduction Of Controller

Solar Water Pumping Program

Solar pump system can be applied to daily use(Groundwater).Agricultural irrigation,foersty ieeigation,desert control,pasture animal husbandry,water supplier for islands,waste waste water treatment engineering and so on,solar tech solar pumping system is depends on energy storing devices,and stors water innstead of electricity.It Improve the device,and at the same time it lowers the construcyion and maintenance cost if the system dramatically.In recent years,with the promotion of the utilization of new energy resouces, solar pumping system are widely used in municial engineering,city centre squares,parks,turist sites,resorts and hotels,the landscapes and fountain system in the residential areas.



Street Light Controller 12V/24V



MPPT Controller 12V/24V/48V/96V



PWM Controller 12V/24V/48V/96V/110V/220V/380V



Solar E-bike Charging Controller 12V/24V/48V/60V/72V



Integrated Solar Street Light



Product Model	Power	(mm) Border Size	(mm) Solar Panel Size
SR-15W-3030C	15W	688*315*70	680*272
SR-20W-3030C	20W	688*443*70	680*398
SR-40W-3030C	40W	828*443*70	820*398
SR-60W-3030C	60W	1162*553*70	1150*510
SR-80W-3030C	80W	1308*553*70	1300*510
SR-100W-3030C	100W	1478*553*70	1478*553
SR-15W-3030B	15W	688*300*43	680*272
SR-20W-3030B	20W	828*300*43	820*272
SR-30W-3030B	30W	1078*300*43	1070*272
SR-40W-3030B	40W	1078*360*43	1070*331
SR-60W-3030B	60W	1078*426*43	1070*398
SR-60/80W-3030B	60/80W	1306*426*43	1298*398
SR-80W-3030B	80W	1468*426*43	1460*398
SR-10W-3030A	10W	438*300*43	430*272
SR-15W-3030A	15W	688*300*43	680*272
SR-20W-3030A	20W	828*300*43	820*272
SR-30W-3030A	30W	1078*300*43	1070*272
SR-40W-3030A	40W	1078*360*43	1070*331
SR-60W-3030A	60W	1078*426*43	1070*398
SR-60/80W-3030A	60/80W	1306*426*43	1298*398
SR-80W-3030A	80W	1468*426*43	1460*398

Seperated Solar Street Light



Solar Inverter

On Grid Inverter



Lead-Acid Battery



Off Grid Inverter



Battery Type	Rated Voltage	Rated Capacity	Length	Width	Height	Total Height	Reference Weight
12V9.0Ah	12V	9.0Ah	151	65	94	100	2.60
12V10Ah	12V	10Ah	151	98	95	100	3.00
12V12Ah	12V	12Ah	151	98	95	100	3.60
12V15Ah	12V	15Ah	151	98	95	100	4.00
12V17Ah	12V	17Ah	181	76	165	165	4.60
12V18Ah	12V	18Ah	181	76	165	165	5.00
12V24Ah	12V	24Ah	165	76	165	165	5.00
12V26Ah	12V	26Ah	175	165	125	125	7.50
12V28Ah	12V	28Ah	175	165	125	125	7.50
12V33Ah	12V	33Ah	196	131	155	170	7.80
12V38Ah	12V	38Ah	198	166	170	170	8.00
12V40Ah	12V	40Ah	198	166	170	190	10.0
12V50Ah	12V	50Ah	280	125	190	125	12.5
12V55Ah	12V	55Ah	229	155	208	227	13.8
12V65Ah	12V	65Ah	348	168	128	178	20.5
12V70Ah	12V	70Ah	260	169	212	218	22.0
12V80Ah	12V	80Ah	332	174	213	238	24.5
12V90Ah	12V	90Ah	332	174	213	238	25.5
12V100Ah	12V	100Ah	407	174	208	238	30.0
12V120Ah	12V	120Ah	406	174	208	233	36.5
12V150Ah	12V	150Ah	483	170	241	241	42.5
12V160Ah	12V	160Ah	483	170	241	241	45.0
12V180Ah	12V	180Ah	522	240	219	244	58.0
12V200Ah	12V	200Ah	522	240	219	244	60.0
12V250Ah	12V	250Ah	520	269	220	249	73.0

Lithium Battery



18650

26650

32650

Products Application

Raw Material-battery cell(Used A grade battery cell with explosion-proof valve, good consistency high safety factor, deep circulation and long lifespan)

Li ion battery cell (Diameter 18mm, Length 65mm: 3.7V1500—3000(according to customer requirement)

LiFePO4 battery cell: 32650, 26650 And 18650.

32650 cell capacity: 3.2V5000—6000mAh

26650 cell capacity:3.2V3000—3300mAh.18650 cell capacity: 3.2V1500—3000mAh

Flexible Solar Panel



●Sunpower

Model	Size (mm)	Efficiency	Power	Voltage	Current	Cells number	Connector	Waterproof
SR320-S	1560*1050*3	21.5%	320W	52.8V	6.06A	96pcs	MC4	IP65
SR220-S	1445*800*2.5	21.5%	220W	36.3V	6.02A	66pcs	MC4	IP65
SR200-S	1320*800*2.5	21.5%	200W	33.0V	6.06A	60pcs	MC4	IP65
SR160-S	1080*780*2.5	22.5%	160W	26.4V	6.06A	48pcs	MC4	IP65
SR120-S	1200*535*2.5	22.5%	120W	19.8V	6.06A	36pcs	MC4	IP65
SR100-S	1060*535*2.5	22.5%	100W	17.6V	5.68A	32pcs	MC4	IP65
SR70-S	745*535*2.5	22.5%	70W	17.6V	3.96A	48pcs	MC4	IP65
SR50-S	555*535*2.5	22.5%	50W	17.6V	2.84A	32pcs	MC4	IP65
SR40-S	535*435*2.5	22.5%	40W	19.8V	2.02A	36pcs	MC4	IP65
SR30-S	645*300*2.5	22.5%	30W	19.8V	1.51A	36pcs		IP65
SR20-S	440*270*2.5	22.5%	20W	19.8V	1.00A	36pcs		IP65
SR7-S	290*145*2.5	22.5%	7W	6.6V	1.00A	12pcs		IP65









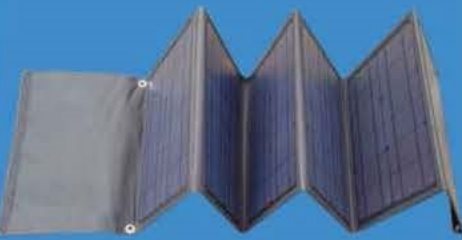
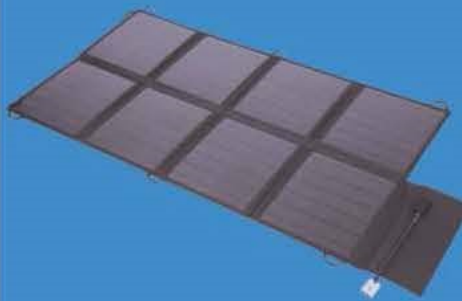
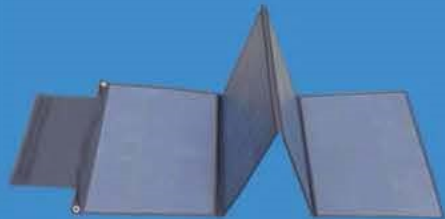
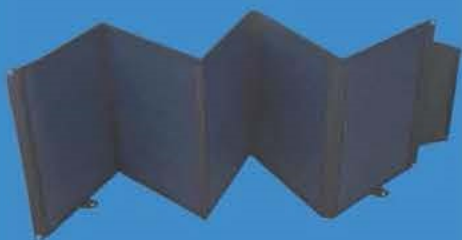
●Mono

Model	Size (mm)	Efficiency	Power	Voltage	Current	Cells number	Connector	Waterproof
SR290-S	1560*1050*3	20.5%	290W	52.8V	6.06A	96pcs	MC4	IP65
SR200-S	1445*800*2.5	20.5%	200W	36.3V	6.02A	66pcs	MC4	IP65
SR180-S	1320*800*2.5	20.5%	180W	33.0V	6.06A	60pcs	MC4	IP65
SR145-S	1080*780*2.5	20.5%	145W	26.4V	6.06A	48pcs	MC4	IP65
SR110-S	1200*535*2.5	20.5%	110W	19.8V	6.06A	36pcs	MC4	IP65
SR96-S	1060*535*2.5	20.5%	96W	17.6V	5.68A	32pcs	MC4	IP65
SR60-S	745*535*2.5	20.5%	60W	17.6V	3.96A	48pcs	MC4	IP65
SR50-S	555*535*2.5	20.5%	50W	17.6V	2.84A	32pcs	MC4	IP65
SR35-S	535*435*2.5	20.5%	35W	19.8V	2.02A	36pcs	MC4	IP65
SR27-S	645*300*2.5	20.5%	27W	19.8V	1.51A	36pcs		IP65
SR17-S	440*270*2.5	20.5%	17W	19.8V	1.00A	36pcs		IP65

Folding Solar Panel

		
30W	100W	Handig Bag
		
120W	120W	Controller
		
160W	200W	Anderson Connector
		
220W	250W	Back Side View

Folding Solar Bag

		
5W	7W	10W
		
21W		30W
		
45W		100W
		
120W	160W	200W

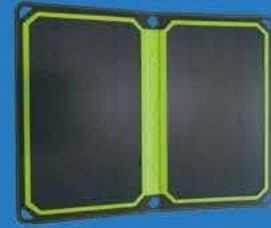
Laminated Folding Solar Charger



7W



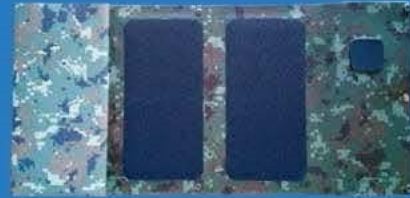
10W



10W



14W



14W



15W



15W



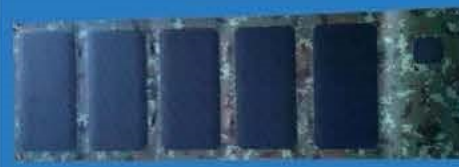
21W



21W



30W



35W



42W

Mono-Crystalline Solar Panel Specifications

Model No	Maximum-Power (Wp)	Opencircuit-Voltage (V)	Short circuit-current (A)	Maximumoperat-Involtage(V)	Maximumoperat-Ingcurrent(A)	Module Dimensi onH*W*D(mm)
SR360M-36	360	46.80	9.43	40.10	8.98	1940*992*40
SR350M-36	350	46.30	9.23	39.82	8.79	1940*992*40
SR340M-36	340	45.79	9.13	39.10	8.70	1940*992*40
SR330M-36	330	45.43	9.93	38.81	8.50	1940*992*40
SR320M-36	320	45.29	9.69	38.66	8.28	1940*992*40
SR310M-30	310	39.72	9.60	33.90	9.14	1940*992*40
SR300M-30	300	39.48	9.36	33.66	8.91	1640*992*35
SR290M-30	290	39.24	9.09	33.48	8.66	1640*992*35
SR240M-24	240	31.49	9.39	26.83	8.94	1320*992*35
SR230M-24	230	31.49	9.00	26.83	8.57	1320*992*35
SR220M-24	220	31.49	8.61	26.83	8.20	1320*992*35
SR220M-36	220	44.90	6.10	37.32	5.89	1580*808*35
SR210M-36	210	44.70	6.05	37.15	5.65	1580*808*35
SR200M-36	200	44.65	5.98	36.86	5.43	1580*808*35
SR190M-36	190	43.90	5.68	36.57	5.20	1580*808*35
SR170M-18	170	23.10	8.84	20.00	8.50	1470*670*35
SR160M-18	160	22.70	8.49	19.60	8.16	1470*670*35
SR150M-18	150	22.59	8.17	19.10	7.85	1470*670*35
SR140M-18	140	22.55	7.92	18.38	7.62	1200*670*35
SR130M-18	130	22.56	7.36	18.38	7.07	1200*670*35
SR120M-18	120	22.56	6.79	18.38	6.53	1050*670*35
SR110M-18	110	22.56	6.22	18.38	5.98	1200*540*35
SR100M-18	100	22.56	5.66	18.38	5.44	1200*540*35
SR90M-18	90	22.56	5.09	18.38	4.90	1200*540*35
SR80M-18	80	22.56	4.53	18.38	4.35	915*540*30
SR70M-18	70	22.56	3.96	18.38	3.81	810*540*30
SR60M-18	60	22.56	3.39	18.38	3.26	700*540*30
SR50M-18	50	22.56	2.83	18.38	2.72	540*540*25
SR40M-18	40	22.56	2.26	18.38	2.18	500*540*25
SR30M-18	30	22.56	1.70	18.38	1.63	390*540*25
SR20M-18	20	22.56	1.13	18.38	1.09	410*340*17
SR15M-18	15	22.56	0.85	18.38	0.82	340*340*17
SR10M-18	10	22.56	0.57	18.38	0.54	340*235*17
SR5M-18	5	22.56	0.28	18.38	0.27	225*185*17
SR4M-9	4	12.6	0.395	10.8	0.37	225*185*17
SR3M-9	3	12.6	0.31	10.7	0.28	155*180*15
SR2M-9	2	12.4	0.21	10.6	0.19	130*140*17
SR2M-5	1	6.25	0.21	5.2	0.19	100*120*15

Poly-crystalline Solar Panel Specifications

Model No	Maximum Power (Wp)	Open circuit Voltage (V)	Short circuit current (A)	Maximum operating Voltage(V)	Maximum operating current(A)	Module Dimension H*W*D(mm)
SR320P-36	320	46.44	8.48	39.24	8.15	1940*992*40
SR310P-36	310	46.44	8.22	39.24	7.90	1940*992*40
SR300P-36	300	46.44	7.95	39.24	7.65	1940*992*40
SR290P-36	290	46.44	7.69	39.24	7.39	1940*992*40
SR280P-36	280	46.44	7.42	39.24	7.14	1940*992*40
SR270P-30	270	38.64	8.59	32.7	8.26	1640*992*35
SR260P-30	270	38.64	8.59	32.7	8.26	1640*992*35
SR250P-30	250	38.64	7.95	32.7	8.15	1640*992*35
SR240P-27	240	34.83	8.48	29.43	8.15	1480*992*35
SR230P-27	230	34.83	8.13	29.43	7.82	1480*992*35
SR220P-24	220	30.96	8.75	26.16	8.41	1320*992*35
SR210P-24	210	30.96	8.35	26.16	8.03	1320*992*40
SR200P-24	200	30.96	7.95	26.16	7.65	1320*992*35
SR190P-24	190	30.96	7.55	26.16	7.26	1320*992*35
SR180P-24	180	30.96	7.16	26.16	6.88	1210*992*35
SR170P-24	170	30.96	6.76	26.16	6.50	1150*992*35
SR160P-18	160	21.6	9.09	18.3	8.74	1480*670*30
SR150P-18	150	21.6	8.57	18.2	8.24	1480*670*30
SR140P-18	140	21.6	7.99	18.23	7.68	1320*670*30
SR130P-18	130	21.6	7.42	18.23	7.13	1250*670*30
SR120P-18	120	21.6	6.87	18.16	6.61	1150*670*30
SR110P-18	110	21.6	6.30	18.16	6.06	1050*670*30
SR100P-18	100	21.6	5.73	18.16	5.51	1000*670*30
SR90P-18	90	21.6	5.15	18.16	4.96	860*670*30
SR80P-18	80	21.6	4.58	18.16	4.41	780*670*30
SR70P-18	70	21.6	4.01	18.16	3.85	670*670*30
SR60P-18	60	21.6	3.44	18.16	3.30	610*670*30
SR50P-18	50	21.6	2.86	18.16	2.75	520*670*30
SR40P-18	40	21.6	2.29	18.16	2.20	410*670*25
SR30P-18	30	21.6	1.72	18.16	1.65	525*340*25
SR20P-18	20	21.6	1.15	18.16	1.10	410*340*20
SR15P-18	15	21.6	0.86	18.16	0.83	340*340*20
SR10P-18	10	21.6	0.57	18.16	0.55	260*285*20
SR5P-18	5	21.6	0.29	18.16	0.28	235*185*20
SR4P-9	4	12.6	0.39	10.80	0.37	235*185*17
SR3P-9	3	12.5	0.29	10.70	0.28	155*180*15
SR2P-9	2	12.4	0.20	10.60	0.19	130*140*15
SR1P-5	1	6.05	0.20	5.20	0.19	100*120*15



Mechanical Data	
Solar Cells	Poly Crystalline 156x156mm
Cells Configuration	60 cells (6x10)
Module Dimension	1640x992x35mm
Weight	18kg
Glass	High Transmission Tempered Glass With ARC
Frame	Anodized Aluminium Alloy type 6063T5:Color: Silver
J-box	potted,IP67,1000VDC,TUV&UL certified with 3 schottky bypass diodes
Cables/Connector	4.0mm ² (12AWG),TUV&UL certified/IP67,TypeIV

Temperature Ratings	
Nominal Operating Cell Temperature(NOCT)	45±2°C(113±35.6°F)
Temperature Coefficient of Pmax	- 0.40%/°C(-0.22%/°F)
Temperature Coefficient of Voc	- 0.32%/°C(-0.18%/°F)
Temperature Coefficient of Isc	0.05%/°C(0.028%/°F)

Warranty
 10 Years Workmanship Warranty
 25 Years World's First True Linear Performance Warranty

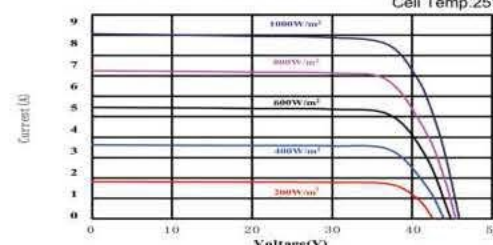
Maximum Ratings	
Operational Temperature	-40~+85°C
Maximum System Voltage	1000VDC
Maximum Series Fuse Rating	15A

Packaging Configuration	
Modul Per Box	30 pcs
Modules Per 40 Ft High Cubic Container	840 pcs
Modules Per 20 Ft Container	360 pcs
Dimensions Of Pallet(LxWxH)	1705x1145x1186mm
Gross Weight	615kg

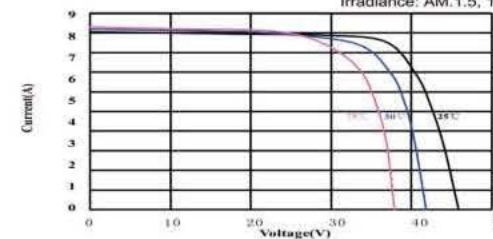
Electrical Data	SR245P-30	SR250P-30	SR260P-30	SR270P-30	SR280P-30
Peak Power Watts-Pmax (Wp)	245	250	260	270	280
Power Output Tolerance-Pmax (%)	0/+3	0/+3	0/+3	0/+3	0/+3
Maximum Power Voltage-Vmp (V)	29.60	30.10	31.05	31.95	32.20
Maximum Power Current-Imp (A)	8.28	8.32	8.40	8.45	8.69
Open Circuit Voltage-Voc (V)	37.60	37.80	38.20	38.60	39.40
Short Circuit Current-Isc (A)	8.82	8.86	8.94	9.02	9.48
Encapsulated Solar Cell Efficiency-ηc(%)	16.8	17.1	17.8	18.5	19.2
Module Efficiency-ηm(%)	15.0	15.3	15.9	16.5	17.1

I-V Characteristics at Different Irradiance & Temperature

I-V Curves of SR270P-30 at different irradiance
 Cell Temp.25°C

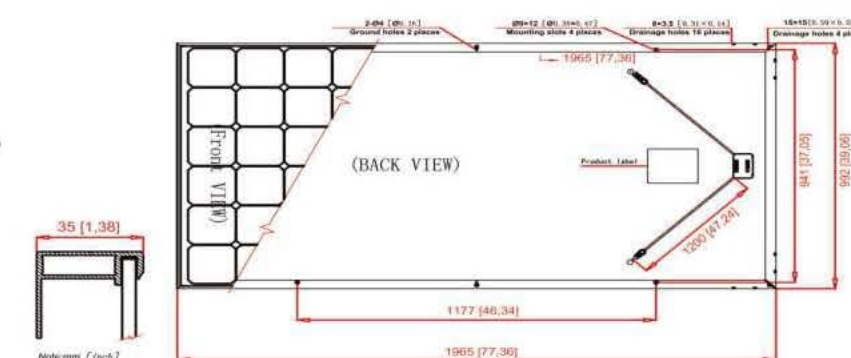


I-V Curves of SR270P-30 at different cell temperature
 Irradiance: AM.1.5, 1KW/m²



Module Efficiency Up to **16.6%**
 Wattage Up to **270W**
 Years Warranty **25**

Dimensional Characteristics





Mechanical Data	
Solar Cells	Mono Crystalline 156.75×156.75mm
Cells Configuration	60 Cells (6x10)
Module Dimension	1640×992×35mm
Weight	18kg
Glass	High Transmission Tempered Glass With ARC
Frame	Anodized aluminium alloy type 6063T5:Color: Silver
J-box	Potted,IP67,1000VDC,TUV&UL certified with 3 schott Ky Bypass Iodes
Cables/Connector	4.0mm ² (12AWG),TUV&UL certified/IP67,TypeIV
Temperature Ratings	
Nominal Operating Cell Temperature(NOCT)	45±2°C(113±35.6°F)
Temperature Coefficient of Pmax	- 0.40%/°C(-0.22%/°F)
Temperature Coefficient of Voc	- 0.32%/°C(-0.18%/°F)
Temperature Coefficient of Isc	0.05%/°C(0.028%/°F)
Warranty	
10 years workmanship warranty	
25 years world's first true linear performance warranty	
Maximum Ratings	
Operational Temperature	-40~+86°C
Maximum System Voltage	1000VDC
Maximum Series Fuse Rating	15A
Packaging Configuration	
Moddul per box	30 pcs
Modules per 40 ft high cubic container	840 pcs
Modules per 20 ft container	360 pcs
Dimensions of pallet(LxWxH)	1705×1145×1186mm
Gross Weight	615kg

Electrcal Data	SR280M-30	SR290M-30	SR300M-30	SR310M-30	SR320M-30
Peak Power Watts-Pmax (Wp)	280	290	300	310	320
Power Output Tolerance-Pmax (%)	0/+3	0/+3	0/+3	0/+3	0/+3
Maximum Power Voltage-Vmp (V)	31.76	32.40	32.80	33.30	33.75
Maximum Power Current-Imp (A)	8.86	8.95	9.15	9.30	9.48
Open Circuit Voltage-Voc (V)	38.80	39.30	39.70	40.20	41.60
Short Circuit Current-Isc (A)	9.45	9.60	9.75	9.83	9.97
Encapsulated Solar Cell Efficiency-ηc(%)	19.5	20.2	20.9	21.6	22.3
Module Efficiency-ηc(%)	17.3	17.8	18.5	19.1	19.7

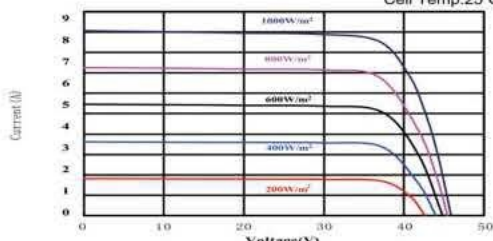


Mechanical Data	
Solar Cells	Poly Crystalline 156×156mm
Cells Configuration	72 Cells (6x12)
Module Dimension	1950×992×40mm
Weight	22kg
Glass	High Transmission Tempered Glass With ARC
Frame	Anodized Aluminium alloy type 6063T5:Color: Silver
J-box	Potted,IP67,1000VDC,TUV&UL Erified With 3 schott Ky Bypass Iodes
Cables/Connector	4.0mm ² (12AWG),TUV&UL Certified/IP67,TypeIV
Temperature Ratings	
Nominal Operating Cell Temperature(NOCT)	45±2°C(113±35.6°F)
Temperature Coefficient of Pmax	- 0.40%/°C(-0.22%/°F)
Temperature Coefficient of Voc	- 0.32%/°C(-0.18%/°F)
Temperature Coefficient of Isc	0.05%/°C(0.028%/°F)
Warranty	
10 Years Workmanship Warranty	
25 Years World's First True Linear Performance Warranty	
Maximum Ratings	
Operational Temperature	-40~+86°C
Maximum System Voltage	1000VDC
Maximum Series Fuse Rating	15A
Packaging Configuration	
Moddul Per Box	30 pcs
Modules per 40 Ft High Cubic Container	660 pcs
Modules Per 20 Ft Container	300 pcs
Dimensions Of Pallet(LxWxH)	2025×1145×1186mm
Gross Weight	710kg

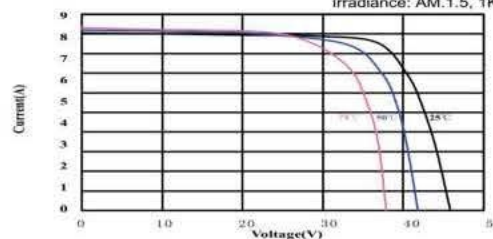
Electrcal Data	SR300P-36	SR310P-36	SR320P-36	SR330P-36
Peak Power Watts-Pmax (Wp)	300	310	320	330
Power Output Tolerance-Pmax (%)	0/+3	0/+3	0/+3	0/+3
Maximum Power Voltage-Vmp (V)	36.20	37.00	37.80	38.60
Maximum Power Current-Imp (A)	8.30	8.40	8.45	8.55
Open Circuit Voltage-Voc (V)	45.40	45.80	46.20	46.60
Short Circuit Current-Isc (A)	8.85	8.95	9.05	9.15
Encapsulated Solar Cell Efficiency-ηc(%)	17.1	17.7	18.2	18.8
Module Efficiency-ηc(%)	15.4	15.9	16.4	16.9

I-V Characteristics at Different Irradiance & Temperature

I-V Curves of SR300P-36 at different irradiance
Cell Temp.25°C

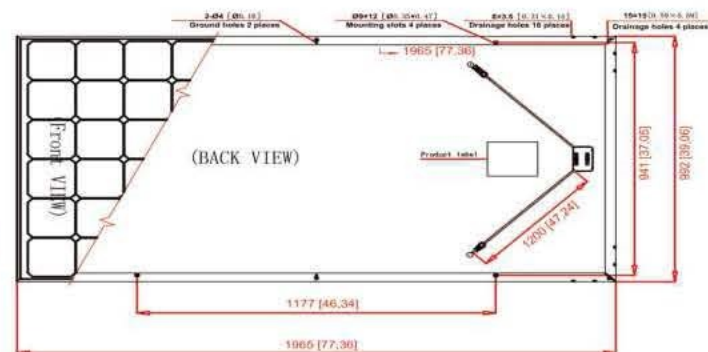


I-V Curves of SR300P-36 at different cell temperature
Irradiance: AM.1.5, 1KW/m²



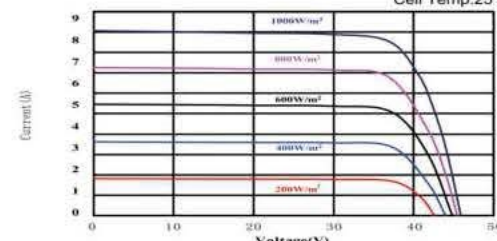
Module Efficiency Up to **18.5%**
Wattage Up to **300W**
Years Warranty **25**

Dimensional Characteristics

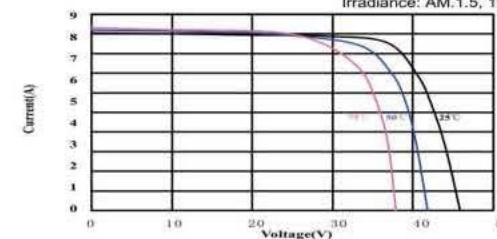


I-V Characteristics at Different Irradiance & Temperature

I-V Curves of SR320P-36 at different irradiance
Cell Temp.25°C

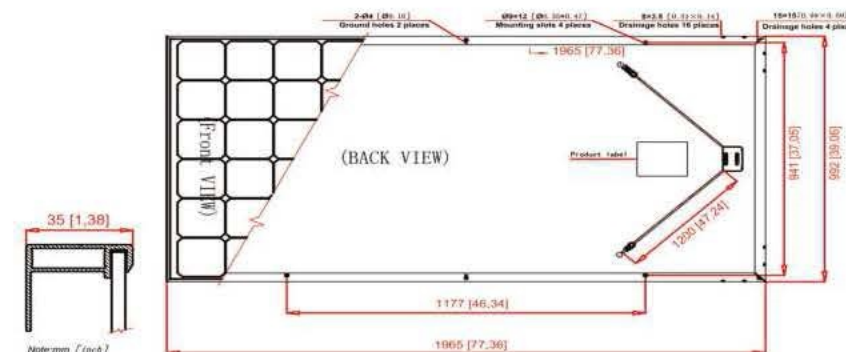


I-V Curves of SR320P-36 at different cell temperature
Irradiance: AM.1.5, 1KW/m²



Module Efficiency Up to **16.6%**
Wattage Up to **320W**
Years Warranty **25**

Dimensional Characteristics





Mechanical Data	
Solar Cells	Mono Crystalline 156.75x156.75mm
Cells Configuration	72 Cells (6x12)
Module Dimension	1950x992x40mm
Weight	22Kg
Glass	High Transmission Tempered Glass With ARC
Frame	Anodized Aluminium alloy type 6063T5:Color: Silver
J-box	Potted,IP67,1000VDC,TUV&UL certified with 3 schott Ky Bypass Iodes
Cables/Connector	4.0mm ² (12AWG),TUV&UL certified/IP67,TypeIV
Temperature Ratings	
Nominal Operating Cell Temperature(NOCT)	45±2°C(113±35.6°F)
Temperature Coefficient Of Pmax	- 0.40%/°C(-0.22%/°F)
Temperature Coefficient Of Voc	- 0.32%/°C(-0.18%/°F)
Temperature Coefficient Of Lsc	0.05%/°C(0.028%/°F)
Warranty	
10 Years Workmanship Warranty	
25 Years World's First True Linear Performance Warranty	
Maximum Ratings	
Operational Temperature	-40~+86°C
Maximum System Voltage	1000VDC
Maximum Series Fuse Rating	15A
Packaging Configuration	
Moddul Per Box	30 pcs
Modules Per 40 Ft High Cubic Container	660 pcs
Modules Per 20 Ft Container	300 pcs
Dimensions Of Pallet(LxWxH)	2025x1145x1186mm
Gross Weight	710kg

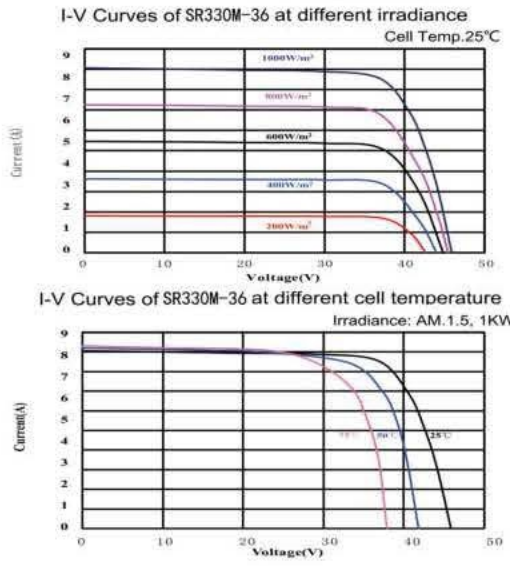


Mechanical Data	
Solar Cells	Mono Crystalline 125x125mm
Cells Configuration	72 Cells (6x12)
Module Dimension	1580x808x35mm
Weight	15Kg
Glass	High transmission Tempered Glass With ARC
Frame	Anodized Aluminium Alloy type 6063T5:Color: Silver
J-box	potted,IP67,1000VDC,TUV&UL certified with 3 schott Ky Bypass Iodes
Cables/Connector	4.0mm ² (12AWG),TUV&UL Certified/IP67,TypeIV
Temperature Ratings	
Nominal Operating Cell Temperature(NOCT)	45±2°C(113±35.6°F)
Temperature Coefficient Of Pmax	- 0.40%/°C(-0.22%/°F)
Temperature Coefficient Of Voc	- 0.32%/°C(-0.18%/°F)
Temperature Coefficient Of Lsc	0.05%/°C(0.028%/°F)
Warranty	
10 Years Workmanship Warranty	
25 Years World's First True Linear Performance Warranty	
Maximum Ratings	
Operational Temperature	-40~+86°C
Maximum System Voltage	1000VDC
Maximum Series Fuse Rating	10A
Packaging Configuration	
Moddul Per Box	30 pcs
Modules Per 40 Ft High Cubic Container	840 pcs
Modules Per 20 Ft Container	360 pcs
Dimensions Of Pallet(LxWxH)	1640x1145x998mm
Gross Weight	495kg

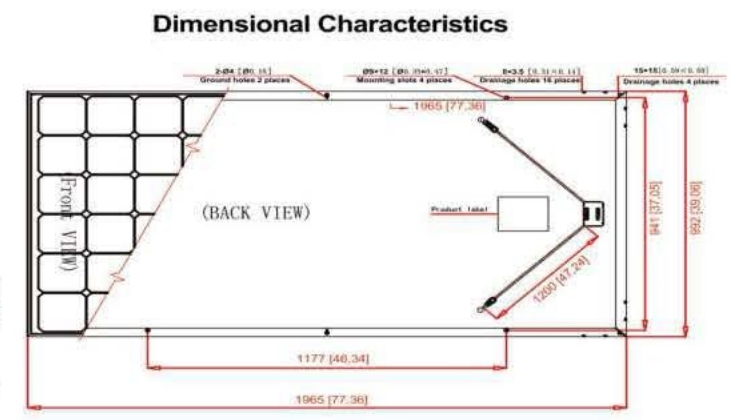
Electrcal Data	SR330M-36	SR340M-36	SR350M-36	SR360M-36	SR370M-36
Peak Power Watts-Pmax (Wp)	330	340	350	360	370
Power Output Tolerance-Pmax (%)	0/+3	0/+3	0/+3	0/+3	0/+3
Maximum Power Voltage-Vmp (V)	38.90	39.25	39.85	40.30	40.82
Maximum Power Current-Imp (A)	8.48	8.66	8.78	8.93	9.05
Open Circuit Voltage-Voc (V)	45.80	46.00	46.30	46.80	47.20
Short Circuit Current-Isc (A)	9.25	9.35	9.50	9.62	9.75
Encapsulated Solar Cell Efficiency-ηc(%)	19.2	19.8	20.3	20.9	21.5
Module Efficiency-ηc(%)	17.0	17.8	18.1	18.6	19.1

Electrcal Data	SR190M-36	SR195M-36	SR200M-36	SR205M-36
Peak Power Watts-Pmax (Wp)	190	195	200	205
Power Output Tolerance-Pmax (%)	0/+3	0/+3	0/+3	0/+3
Maximum Power Voltage-Vmp (V)	36.60	36.80	37.10	37.30
Maximum Power Current-Imp (A)	5.20	5.30	5.40	5.50
Open Circuit Voltage-Voc (V)	45.35	45.50	45.65	45.80
Short Circuit Current-Isc (A)	5.55	5.65	5.75	5.85
Encapsulated Solar Cell Efficiency-ηc(%)	14.9	17.5	17.9	18.4
Module Efficiency-ηc(%)	14.9	15.2	15.7	16.0

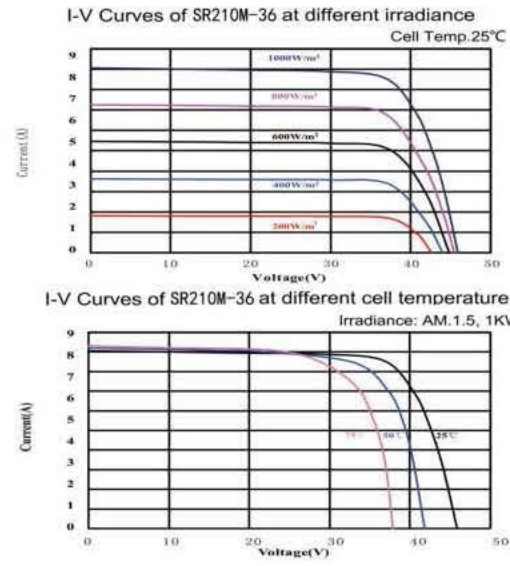
I-V Characteristics at Different Irradiance & Temperature



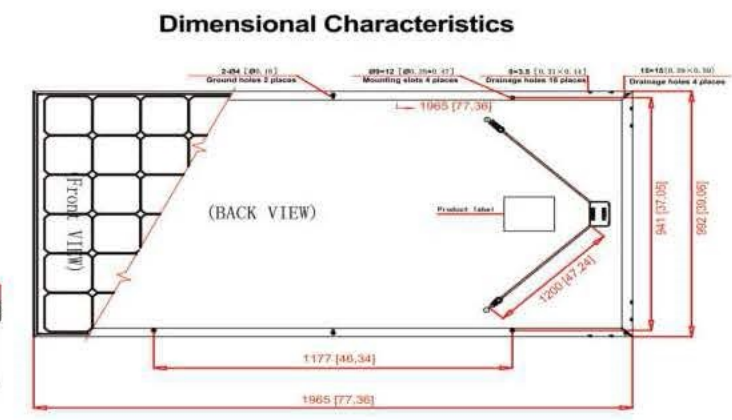
Module Efficiency Up to **17.15%**
Wattage Up to **330W**
Years Warranty **25**



I-V Characteristics at Different Irradiance & Temperature



Module Efficiency Up to **16.45%**
Wattage Up to **210W**
Years Warranty **25**



To make the solar panel, there will be a request for different materials. The complete solar panel material include: tempered glass, EVA film, silicon cell, backsheet, bus bar, frame and junction box. From top to bottom, they are tempered glass, EVA film, solar cells, EVA film, back sheet. Before the lamination, there is a request to welding bus bar on the solar cells in a certain way. After lamination, it will be install frame and junction box.

With characters of high transparent, heat resistance, high pressure resistance and easily clean, the tempered glass is widely used in making solar module.



Typical thickness	3.2mm	4.0mm
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Within the process of laying, the EVA film covers on the both sides of up and down of the solar cells. In the process of lamination, the EVA will get melting under high temperature and high pressure, and make the tempered glass, solar cells, the backsheet adhered firmly together.



Spec.	0.30mm	0.35mm	0.4mm	0.45mm	0.5mm
Size/roll	100*1m				

Solar panel's backsheet have TPT, TPE and PET a variety of different materials, the material with high temperature resistant, Anti-corrosion, it can protect the cell better to avoid being damaged. The following is the specification of TPT, TPE and PET widely used.

Spec.	0.3mm	0.35mm	0.40mm
Size/roll	100*1m		
Color	white/blue/black		



The key material for the solar panel is the solar cells, which is the source converting the light energy to electrical power. The solar cell is divided into the two types: Mono-Crystalline solar cell and Poly-Crystalline. Below are types and spec of the solar cell:



Spec.	125*125 Mono	156*156 Mono	156*156 Poly	125*125 Sunpower
Size	125*125mm	156*156mm	156*156mm	125*125mm
Power range	2.5-3.1W	4.5-5.2W	4.0-4.5W	3-3.7W

Connecting each solar cell together under certain request, there will be a request for the bus bar. Below are common sizes of the bus bar for the solar panel.

常规厚度 Typical thickness	5*0.2mm	2*0.16mm	2*0.12mm
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The most common used material for the frame of solar panel is aluminum alloy, with the character of light weight, rustless and strong ability of resist the wind.

Spec.			
50*35mm	45.30mm	40*30mm	35*30mm
30*25mm	25*25mm	20*20mm	17*17mm



Junction box is the interface equipment for the DC output of the solar. Usually use resistance to high temperature and high pressure PC rubber manufacturing. Different solar panel need different diode with different spec. and quantity.

