

Solar Panel

Solar panels are made of monocrystalline or polycrystalline silicon solar cells, series connection or parallel connection, then hot-pressed and sealed by tempering glass and EVA TPT, equipped with aluminum alloy frame.

◆ Tempering glass

Low iron tempered glass also named white glass, common thickness 3.2 mm or 4 mm, transmittance is up to 90%, This glass also resists UV light radiation, and its transmittance is not falling.

◆ EVA

EVA is a kind of hot melt adhesive, the thickness between 0.4 mm - 0.6 mm, smooth surface, uniform thickness,

◆ Solar cell

Solar cell is the smallest unit of the photoelectric conversion; its working voltage is about 0.5 V

◆ Back veneer

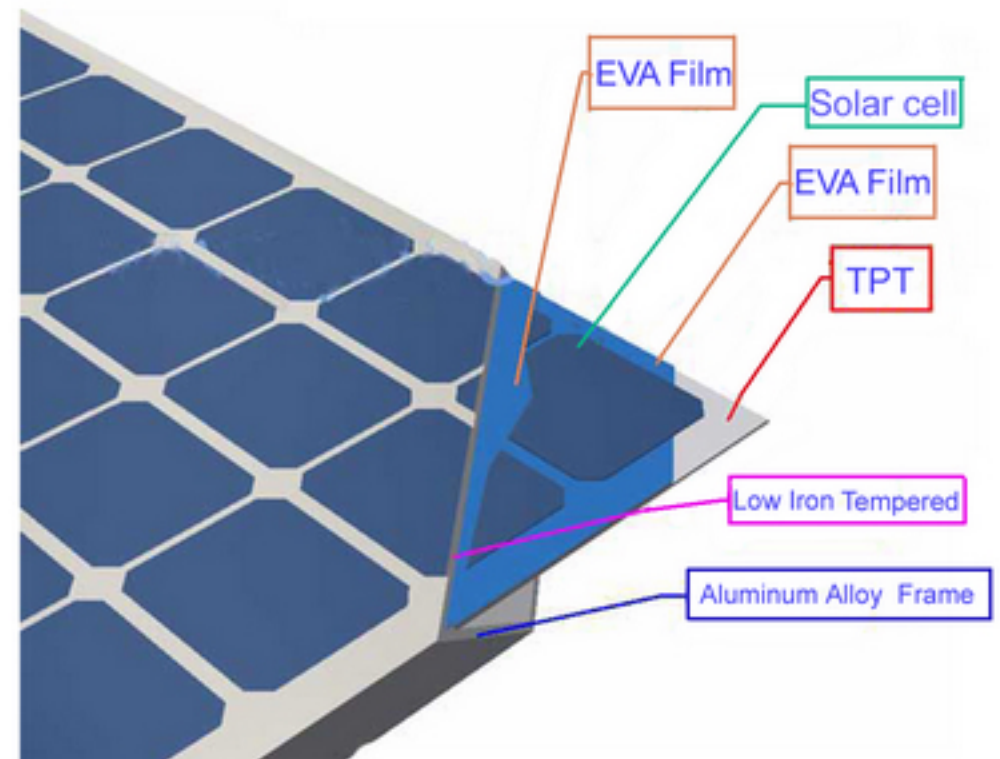
Back veneer is that the protective material of the back of solar panels, including TPT, BBF, DNP, etc.

◆ Junction box

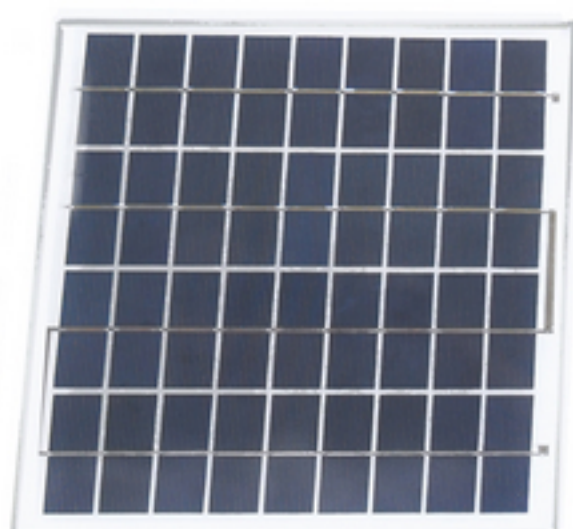
Generally, Junction box is made of ABS, adding anti-aging agent and resist UV radiation agent.

◆ Aluminum alloy frame

Frame adopts hard aluminum alloy, thickness of surface oxidation layer is more than 10 micron, and it can ensure 25 years' service life.



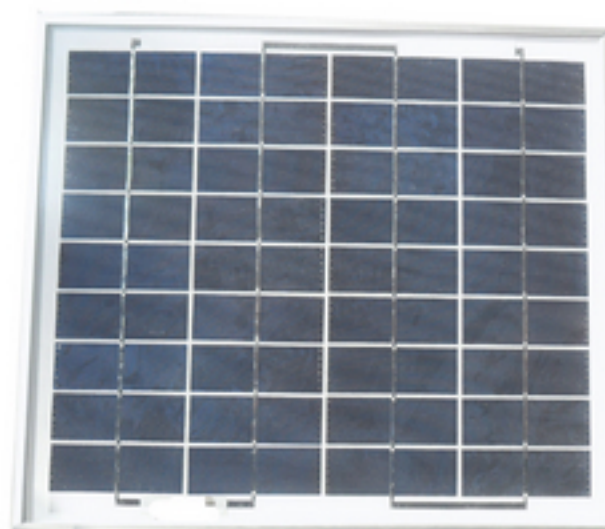
Solar Panel (Poly Crystalline)



5W



52*19.5



10W



52*19.5

Model	JYSP-5P	JYSP-10P	JYSP-15P	JYSP-20P
Technology	Poly	Poly	Poly	Poly
Maximum power(Pmax) W	5	10	15	20
Maximum power voltage(Vmp) V	17.60	19.57	18.34	18.18
Maximum power current(Imp) A	0.30	0.51	0.83	1.11
Open circuit voltage (Voc) V	21.21	22.98	21.96	22.65
Short circuit current (Isc) A	0.36	0.57	1.00	1.22
Dimension of module (mm)	260*250*18	350*305*18	426*362*20	540*360*30
Weight (Kg)	0.8	1.5	2.0	2.2
Maximum system voltage (V)	1000			
Temperature coefficient of Pm(%)	-0.48%°C			
Temperature coefficient of Voc(%)	-0.34%°C			
Temperature coefficient of Isc(%)	-0.037%°C			
Temperature range	-40°C +85°C			
Tolerance in power	± 5%			
Resistances	227g steel ball fall down from 1m height and 60m/s wind			
Relative humidity	0 to 100%			
FF(%)	≥72%			
Standard test conditions	AM1.5 1000W/m² 25°C			
Warranty	Pm is not less than 90% in 10 years and 80% in 25 years			



Solar Panel (Poly Crystalline)



50W



156*52



60W

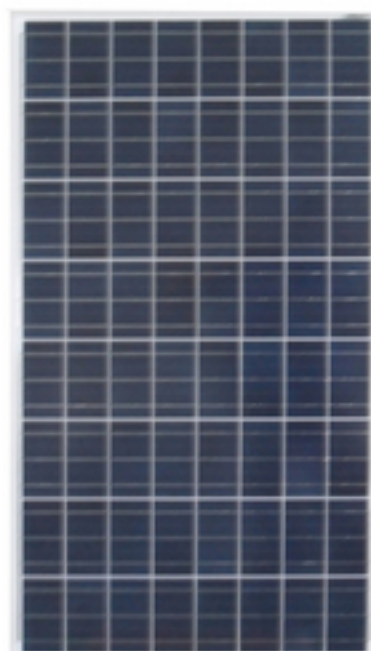


156*66

Model	JYSP-30P	JYSP-50P	JYSP-60P	JYSP-70P
Technology	Poly	Poly	Poly	Poly
Maximum power(Pmax) W	30	50	60	70
Maximum power voltage(Vmp) V	18.61	18.13	19.43	19.21
Maximum power current(Imp) A	1.61	2.76	3.10	3.65
Open circuit voltage (Voc) V	22.37	22.61	22.97	22.52
Short circuit current (Isc) A	1.78	2.95	3.26	3.76
Dimension of module (mm)	670*350*30	670*540*30	670*645*30	1014*515*30
Weight (Kg)	2.6	3.8	4.5	6.2
Maximum system voltage (V)	1000			
Temperature coefficient of Pm(%)	-0.48%°C			
Temperature coefficient of Voc(%)	-0.34%°C			
Temperature coefficient of Isc(%)	-0.037%°C			
Temperature range	-40°C +85°C			
Tolerance in power	± 5%			
Resistances	227g steel ball fall down from 1m height and 60m/s wind			
Relative humidity	0 to 100%			
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Standard test conditions	AM1.5 1000W/m ² 25°C			
Warranty	Pm is not less than 90% in 10 years and 80% in 25 years			



Solar Panel (Poly Crystalline)

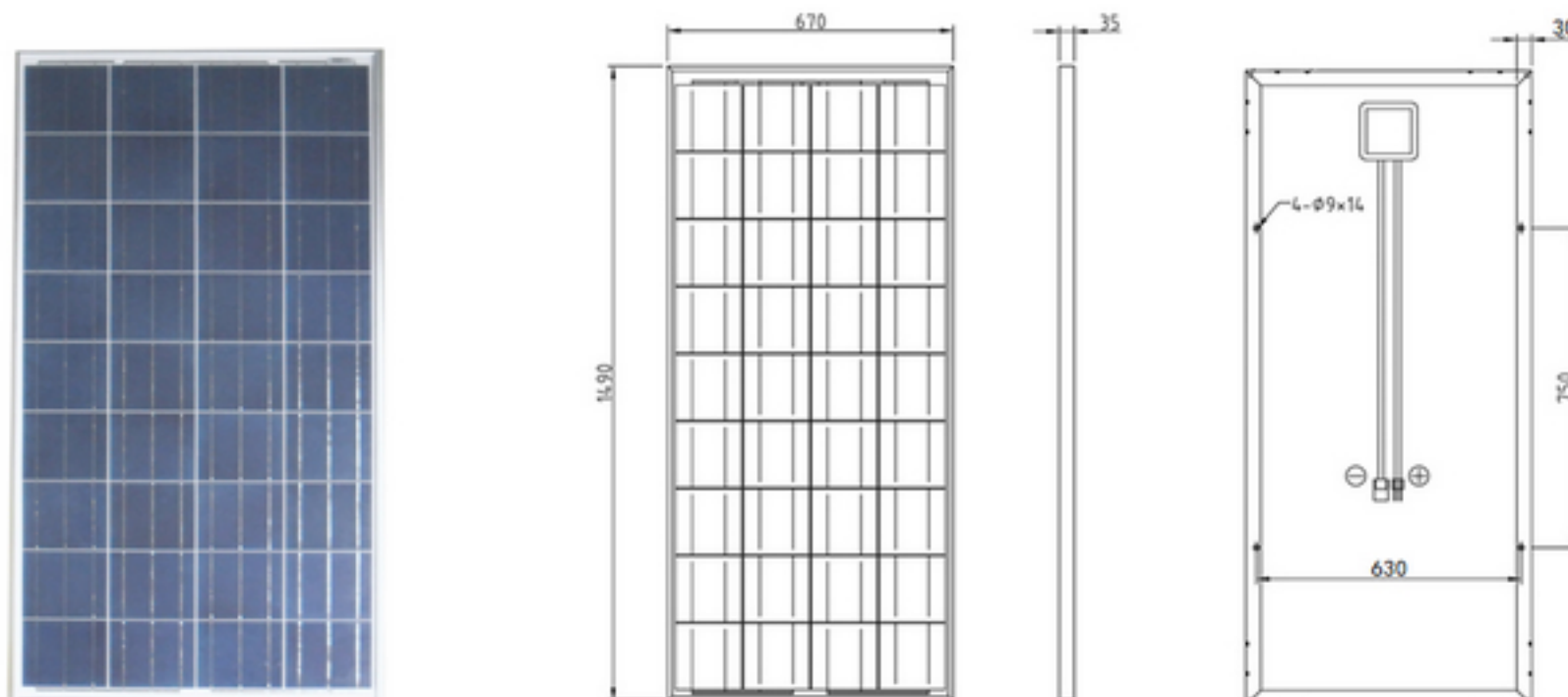


A grade, Long service life, Withstand storm and strong wind;

Model	JYSP-80P	JYSP-100P	JYSP-120P	JYSP-130P
Technology	Poly	Poly	Poly	Poly
Maximum power(Pmax) W	80	100	120	130
Maximum power voltage(Vmp) V	17.30	15.80	16.98	17.13
Maximum power current(Imp) A	4.63	6.34	7.07	7.60
Open circuit voltage (Voc) V	21.91	20.03	22.20	20.51
Short circuit current (Isc) A	4.90	6.73	7.38	7.88
Dimension of module (mm)	1150*525*30	1310*590*30	1470*590*30	1470*590*30
Weight (Kg)	6.2	7.4	9.1	9.1
Maximum system voltage (V)	1000			
Temperature coefficient of Pm(%)	-0.48% ^{°C}			
Temperature coefficient of Voc(%)	-0.34% ^{°C}			
Temperature coefficient of Isc(%)	-0.037% ^{°C}			
Temperature range	-40 ^{°C} +85 ^{°C}			
Tolerance in power	± 5%			
Resistances	227g steel ball fall down from 1m height and 60m/s wind			
Relative humidity	0 to 100%			
FF(%)	≥72%			
Standard test conditions	AM1.5 1000W/m ² 25 ^{°C}			
Warranty	Pm is not less than 90% in 10 years and 80% in 25 years			



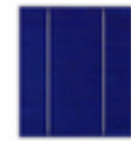
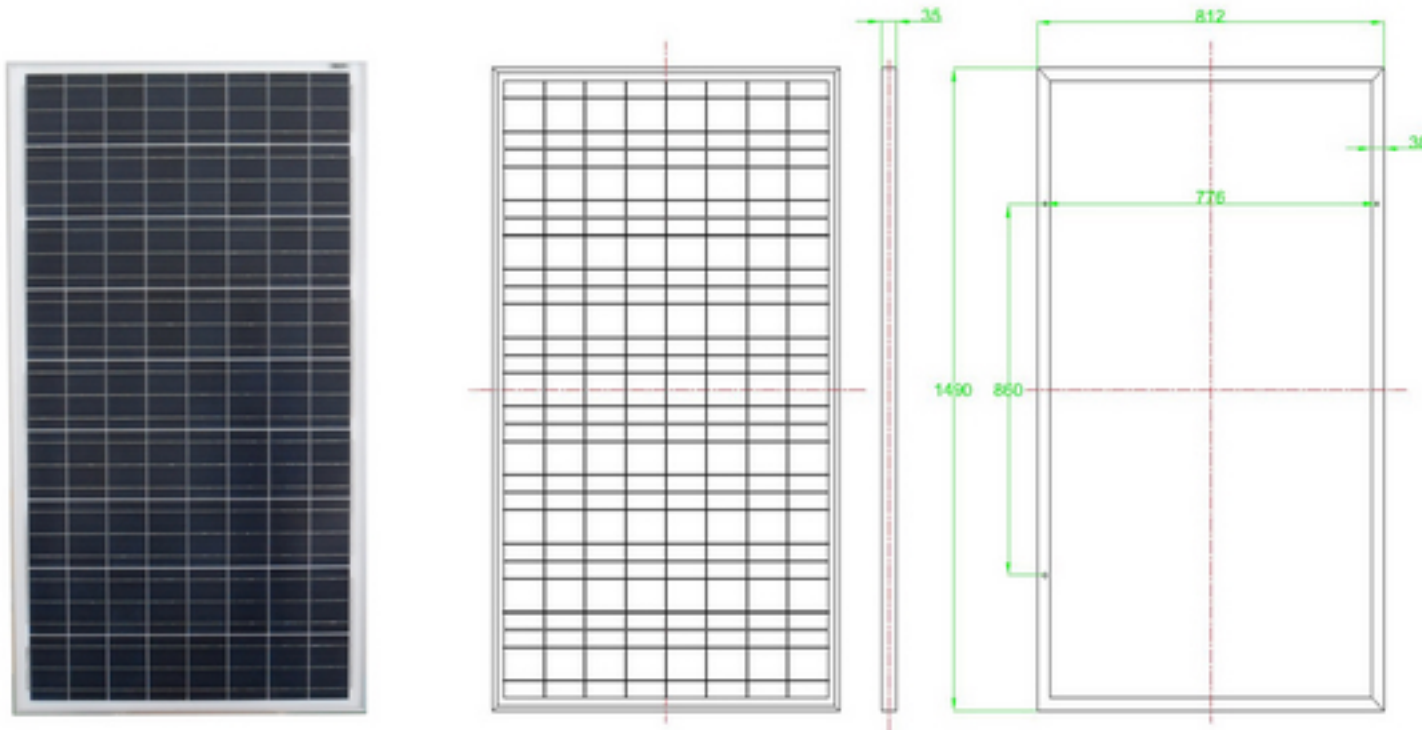
Solar Panel (Poly Crystalline)



Model	JYSP-145P	JYSP-150P	JYSP-155P	JYSP-160P
Technology	Poly	Poly	Poly	Poly
Maximum power(Pmax) W	145	150	155	160
Maximum power voltage(Vmp) V	17.97	17.21	17.11	17.30
Maximum power current(Imp) A	8.09	8.72	9.07	9.26
Open circuit voltage (Voc) V	22.54	21.51	22.59	22.29
Short circuit current (Isc) A	8.64	9.66	9.49	9.89
Dimension of module (mm)	1490*670*35			
Weight (Kg)	10.5	10.5	10.5	10.5
Maximum system voltage (V)	1000			
Temperature coefficient of Pm(%)	-0.48%℃			
Temperature coefficient of Voc(%)	-0.34%℃			
Temperature coefficient of Isc(%)	-0.037%℃			
Temperature range	-40℃ +85℃			
Tolerance in power	± 5%			
Resistances	227g steel ball fall down from 1m height and 60m/s wind			
Relative humidity	0 to 100%			
FF(%)	≥72%			
Standard test conditions	AM1.5 1000W/m ² 25℃			
Warranty	Pm is not less than 90% in 10 years and 80% in 25 years			



Solar Panel (Poly Crystalline)

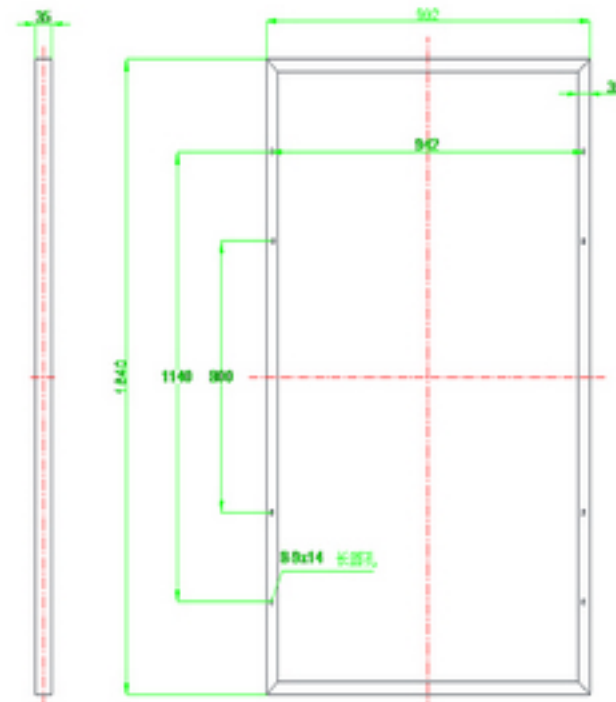
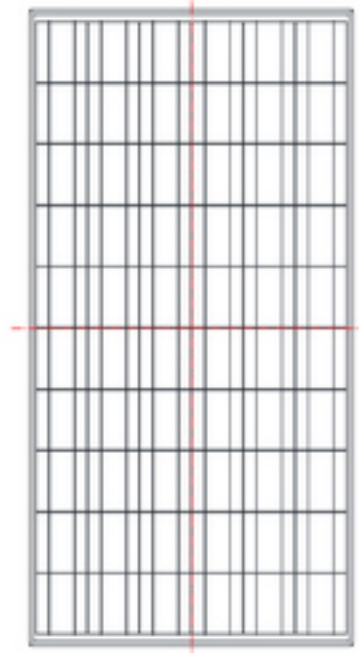
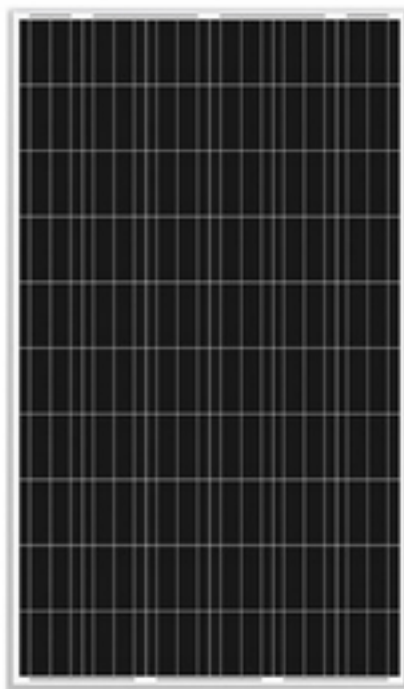


A grade, Long service life, Withstand storm and strong wind;

Model	JYSP-180P	JYSP-200P	JYSP-220P	JYSP-230P
Technology	Poly	Poly	Poly	Poly
Maximum power(Pmax) W	180	200	220	230
Maximum power voltage(Vmp) V	36.41	35.74	29.32	30.68
Maximum power current(Imp) A	4.95	5.60	7.51	7.50
Open circuit voltage (Voc) V	45.20	43.99	36.43	38.03
Short circuit current (Isc) A	5.23	5.98	7.85	8.01
Dimension of module (mm)	1490*812*35	1326*992*40	1640*992*40	1640*992*40
Weight (Kg)	14.0	15.0	21.2	21.2
Maximum system voltage (V)	1000			
Temperature coefficient of Pm(%)	-0.48% ^o C			
Temperature coefficient of Voc(%)	-0.34% ^o C			
Temperature coefficient of Isc(%)	-0.037% ^o C			
Temperature range	-40 ^o C +85 ^o C			
Tolerance in power	± 5%			
Resistances	227g steel ball fall down from 1m height and 60m/s wind			
Relative humidity	0 to 100%			
FF(%)	≥72%			
Standard test conditions	AM1.5 1000W/m ² 25 ^o C			
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Solar Panel (Poly Crystalline)

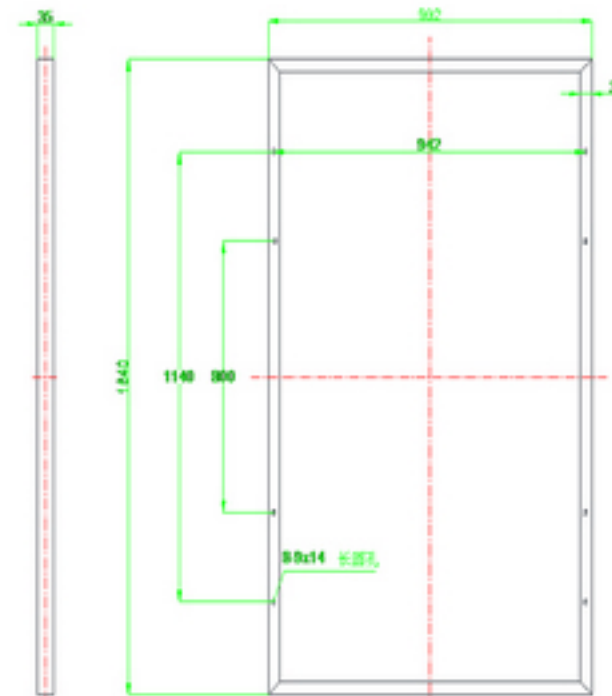
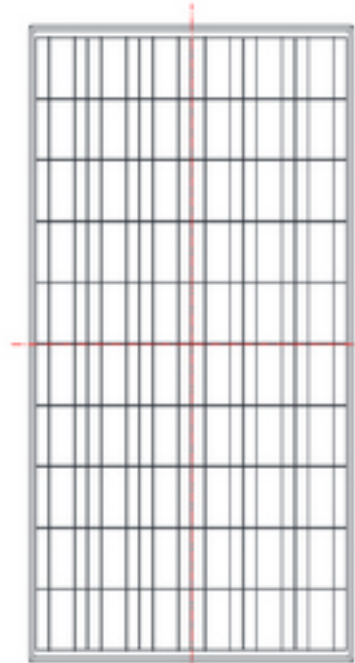


A grade, Long service life, Withstand storm and strong wind;

Model	JYSP-240P	JYSP-250P	JYSP-260P	JYSP-270P
Technology	Poly	Poly	Poly	Poly
Maximum power(Pmax) W	240	250	260	270
Maximum power voltage(Vmp) V	29.66	30.40	30.25	30.70
Maximum power current(Imp) A	8.10	8.23	8.60	8.80
Open circuit voltage (Voc) V	36.99	38.02	38.30	38.88
Short circuit current (Isc) A	8.67	8.80	9.34	9.59
Dimension of module (mm)	1640*992*40			
Weight (Kg)	21.2			
Maximum system voltage (V)	1000			
Temperature coefficient of Pm(%)	-0.48% ^o C			
Temperature coefficient of Voc(%)	-0.34% ^o C			
Temperature coefficient of Isc(%)	-0.037% ^o C			
Temperature range	-40 ^o C +85 ^o C			
Tolerance in power	± 5%			
Resistances	227g steel ball fall down from 1m height and 60m/s wind			
Relative humidity	0 to 100%			
FF(%)	≥72%			
Standard test conditions	AM1.5 1000W/m ² 25 ^o C			
Warranty	Pm is not less than 90% in 10 years and 80% in 25 years			



Solar Panel (Mono Crystalline)

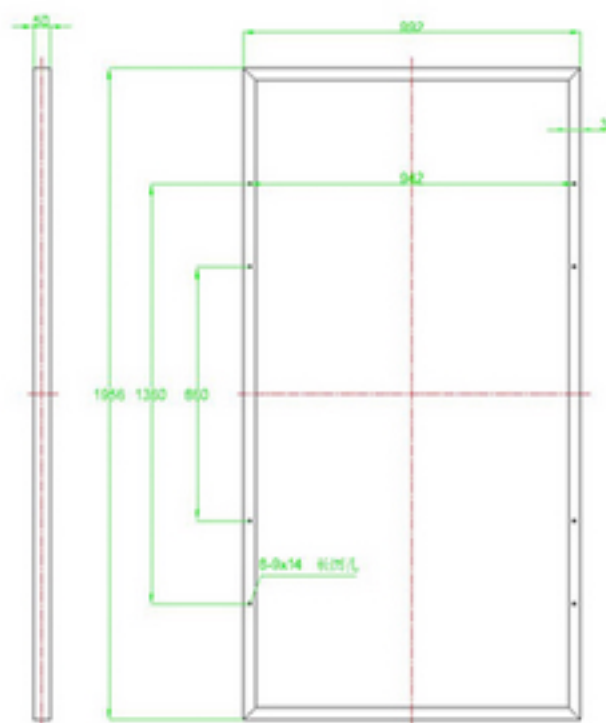
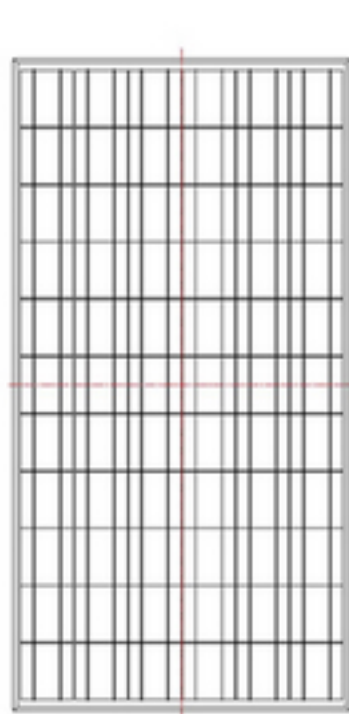


A grade, Long service life, Withstand storm and strong wind;

Model	JYSP-245M	JYSP-250M	JYSP-260M	JYSP-270M
Technology	Mono	Mono	Mono	Mono
Maximum power(Pmax) W	245	250	260	270
Maximum power voltage(Vmp) V	29.05	30.20	30.03	30.48
Maximum power current(Imp) A	8.45	8.29	8.66	8.87
Open circuit voltage (Voc) V	37.23	37.50	38.21	38.44
Short circuit current (Isc) A	8.69	8.99	9.10	9.41
Dimension of module (mm)	1640*992*40			
Weight (Kg)	21.2			
Maximum system voltage (V)	1000			
Temperature coefficient of Pm(%)	-0.48%°C			
Temperature coefficient of Voc(%)	-0.34%°C			
Temperature coefficient of Isc(%)	-0.037%°C			
Temperature range	-40°C +85°C			
Tolerance in power	± 5%			
Resistances	227g steel ball fall down from 1m height and 60m/s wind			
Relative humidity	0 to 100%			
FF(%)	≥72%			
Standard test conditions	AM1.5 1000W/m² 25°C			
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Solar Panel (Poly Crystalline)

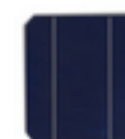
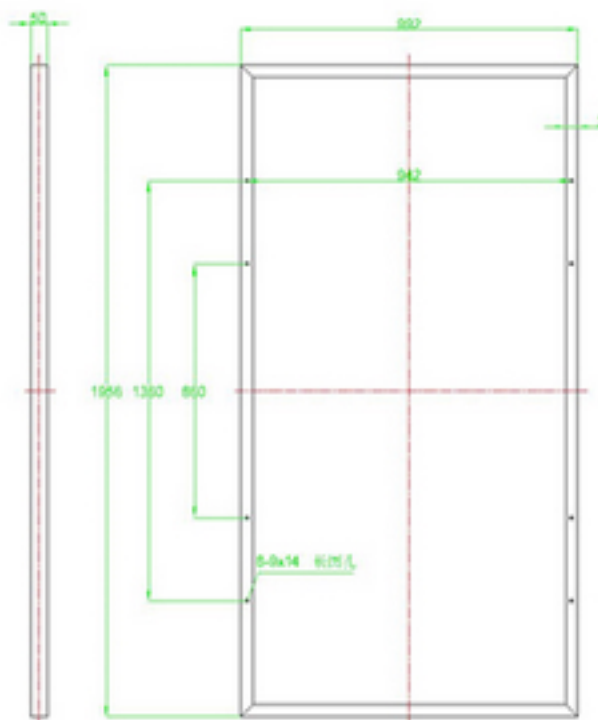
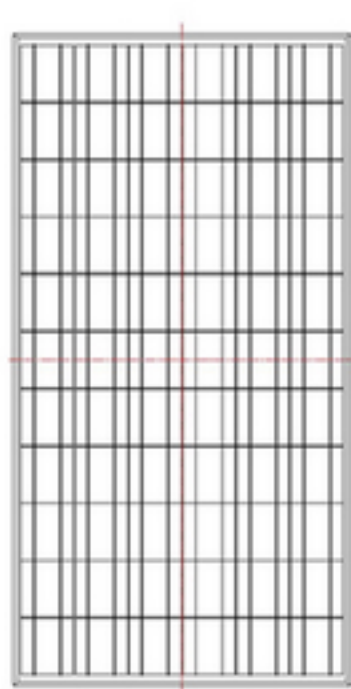


A grade, Long service life, Withstand storm and strong wind;

Model	JYSP-280P	JYSP-290P	JYSP-300P	JYSP-315P
Technology	Poly	Poly	Poly	Poly
Maximum power(Pmax) W	280	290	300	315
Maximum power voltage(Vmp) V	37.83	34.93	36.64	35.68
Maximum power current(Imp) A	7.40	8.31	8.20	8.84
Open circuit voltage (Voc) V	45.71	44.98	44.97	45.02
Short circuit current (Isc) A	8.09	8.76	8.95	9.38
Dimension of module (mm)	1956*992*50			
Weight (Kg)	25.2			
Maximum system voltage (V)	1000			
Temperature coefficient of Pm(%)	-0.48%°C			
Temperature coefficient of Voc(%)	-0.34%°C			
Temperature coefficient of Isc(%)	-0.037%°C			
Temperature range	-40°C +85°C			
Tolerance in power	± 5%			
Resistances	227g steel ball fall down from 1m height and 60m/s wind			
Relative humidity	0 to 100%			
FF(%)	≥72%			
Standard test conditions	AM1.5 1000W/m ² 25°C			
Warranty	Pm is not less than 90% in 10 years and 80% in 25 years			



Solar Panel (Mono Crystalline)



A grade, Long service life, Withstand storm and strong wind;

Model	JYSP-290M	JYSP-300M	JYSP-315M	JYSP-330M
Technology	Mono	Mono	Mono	Mono
Maximum power(Pmax) W	290	300	315	330
Maximum power voltage(Vmp) V	35.34	34.85	36.08	35.72
Maximum power current(Imp) A	8.21	8.62	8.74	9.24
Open circuit voltage (Voc) V	45.33	45.06	45.67	46.21
Short circuit current (Isc) A	8.81	9.40	9.16	9.49
Dimension of module (mm)	1956*992*50			
Weight (Kg)	25.2			
Maximum system voltage (V)	1000			
Temperature coefficient of Pm(%)	-0.48% ^o C			
Temperature coefficient of Voc(%)	-0.34% ^o C			
Temperature coefficient of Isc(%)	-0.037% ^o C			
Temperature range	-40 ^o C +85 ^o C			
Tolerance in power	± 5%			
Resistances	227g steel ball fall down from 1m height and 60m/s wind			
Relative humidity	0 to 100%			
FF(%)	≥72%			
Standard test conditions	AM1.5 1000W/m ² 25 ^o C			
Warranty	Pm is not less than 90% in 10 years and 80% in 25 years			



Solar Street Light Project Gallery



Joysolar big project in Maiduguri in 2006-2007
~ Over 4000 Units



Over 10000 Units solar street light in Nigeria



Joysolar big project in Nouakchott, Mauritania in 2013

4500 units



Joysolar big project in Nigeria in 2014

800 units

