



158.75MM*158.75MM 5BB CELL SOLAR MODULE MANUFACTURING

Output power: 325w - 410w
Max efficiency: 20.68%



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Introduction of Production Line

Military quality, Zero defect

- 100% product inspection;
- 10 years quality assurance of materials and technology;
- 25 years output power linear warranty;
- Real time monitoring of MES system; Control all links from raw materials to finished components systematically; Ensure every process can be traced back to the source;
- Carry out strict reliability test in strict accordance with ISO9001:2015 quality management system and at least twice IEC test standard;
- 100% strictly implement of two EL and three appearance inspections.



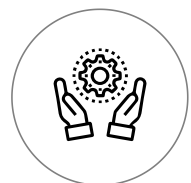
100% product inspection



25 years warranty



Source traceability



Reliability test



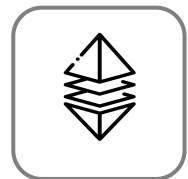


158.75mm*158.75mm Cell Series

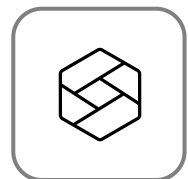
Smart Option of PV Station

Catalog

- Poly halfcut 144cells
Output power: 345-350w Dimension: 2015*996*35mm
- Mono halfcut 144cells
Output power: 380-410w Dimension: 2015*996*35mm
- Mono halfcut 144cells (Full Black)
Output power: 380-410w Dimension: 2015*996*35mm
- Mono halfcut 144cells (Bifacial DG)
Output power: 380-410w Dimension: 2030*1010*40mm
- Mono halfcut 120cells
Output power: 325-345w Dimension: 1690*996*35mm



Small size



Easy to configure



Reliable quality

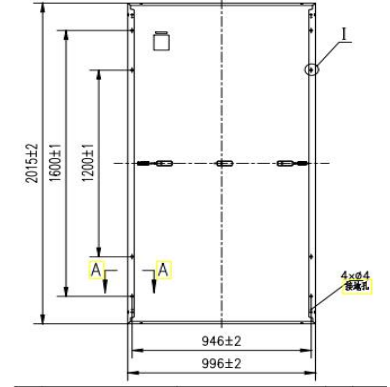
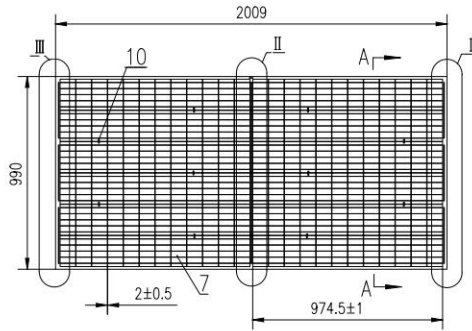
Poly 158mm Halfcut 144cell *(in stock)*

Cell: 158.75*158.75mm

Output power: 345-350w

Halfcell (144pcs-poly)

Dimension: 2015*996*35mm



Mechanical parameters		
Solar cell (mm)	Poly 158.75×79.375	
Cell type	144 (6×12+6×12)	
Module size (length x width x height) (mm)	2015×996×35	
Cable length (mm)	300	
Weight (kg)	21±0.5	
Number of diodes	3	
Working environment		
System voltage (V)	1500VDC	
Working temperature (°C)	-40 ~ +85	
Wind load (PA)	2400	
Snow load (PA)	5400	
Appropriate types	A类	
Electrical parameters		
Component series	SANG-345/350P-144	
Power Rating	345	350
Maximum power voltage (V)	38.07	38.19
Maximum power current (A)	9.07	9.17
Open circuit voltage -Voc (V)	46.96	47.18
Short-circuit current-Isc (A)	9.54	9.62
Module efficiency (%)	17.19	17.44
Power tolerance	0~+5W	
Maximum power temperature coefficient	-0.37%/K	
Open circuit voltage temperature coefficient	-0.28%/K	
Short circuit current temperature coefficient	+0.05%/K	
Overload current	15A	
Packaging&Transport		
40'HQ container transport	31 Pcs/carton × 22 box = 682 Pcs	
Quality assurance		
Sold Panel	The company guarantees that all the components sold have zero defects in materials and processes within 12 years, and the power is not less than 90% within 10 years, and not less than 80% within 25 years	

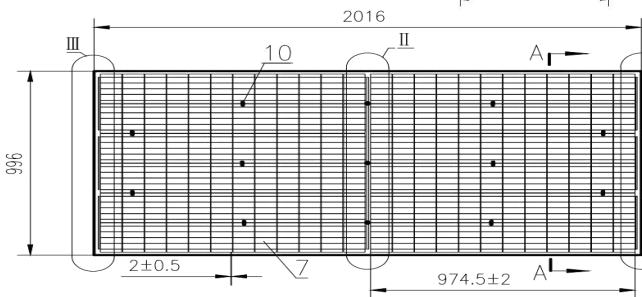
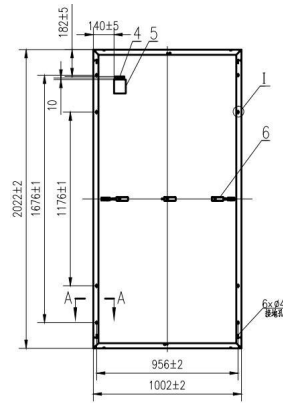
Mono 158mm Halfcut 144cell (in stock)

Output: 380-405w

Type: Singal

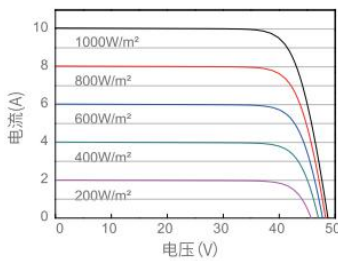
Dimension: 2015*996*35mm

Hot Model for Distributed Station: Small size, light weight, flexible fit

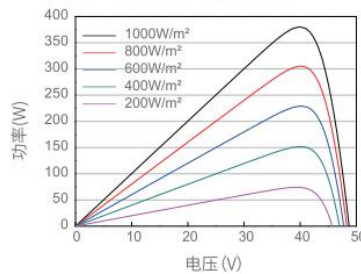


Mechanical parameters	
Solar cell (mm)	Mono crystalline 158.75 × 79.375
Cell type	144 (6×12+6×12)
Module size (length x width x height) (mm)	2015×996×35
Cable length (mm)	750+250
Weight (kg)	23±0.5
Number of diodes	3
Working environment	
System voltage (V)	1000/1500VDC
Working temperature (°C)	-40 ~ + 85
Wind load (PA)	2400
Snow load (PA)	5400
Appropriate types	A Grade

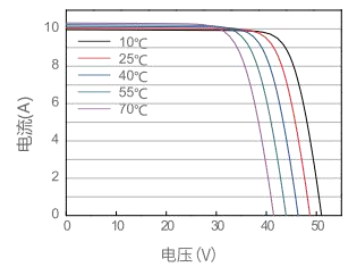
电流-电压曲线 ZKX-380W



功率-电压曲线 ZKX-380W



电流-电压曲线 ZKX-380W



Electrical parameters							
Component series	SANG-xxxM-144						
Power Rating	410	405	400	395	390	385	380
Maximum power voltage (V)	42.31	42.01	41.71	41.41	41.11	40.81	40.51
Maximum power current (A)	9.71	9.66	9.61	9.56	9.50	9.45	9.39
Open circuit voltage -Voc (V)	50.41	50.11	49.81	49.51	49.31	49.11	48.91
Short-circuit current-Isc (A)	10.61	10.49	10.37	10.24	10.13	9.93	9.75
Module efficiency (%)	20.23	19.98	19.74	19.49	19.24	19.00	18.75
Power tolerance	0~+5W						
Maximum power temperature coefficient	-0.37%/K						
Open circuit voltage temperature coefficient	-0.28%/K						
Short circuit current temperature coefficient	+ 0.05%/K						
Overload current	15A/20A						
Packaging&Transport							
40'HQ container transport	31 Pcs/carton × 22 box = 682 Pcs						
Quality assurance							
The company guarantees that all the components sold have zero defects in materials and processes within 12 years, and the power is not less than 90% within 10 years, and not less than 80% within 25 years							

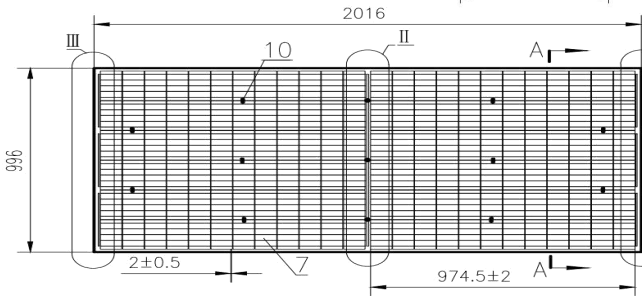
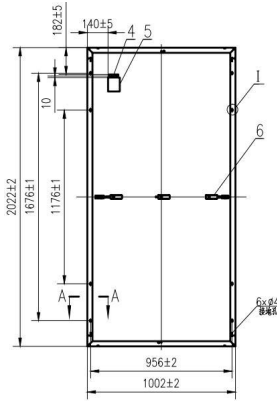
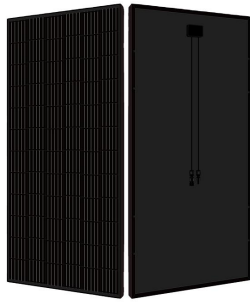
Full black Mono 158mm Halfcut 144cell (*MOQ 40HQ*)

Output: 380-410w

Type: Singal

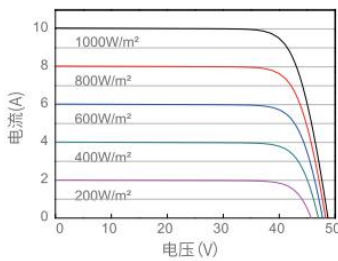
Dimension: 2015*996*35mm

Hot Model for Distributed Station: Small size, light weight, flexible fit

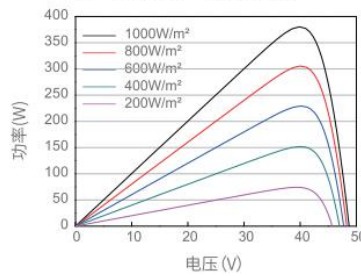


Mechanical parameters	
Solar cell (mm)	Mono crystalline 158.75 × 79.375
Cell type	144 (6×12+6×12)
Module size (length x width x height) (mm)	2015×996×35
Cable length (mm)	750+250
Weight (kg)	23±0.5
Number of diodes	3
Working environment	
System voltage (V)	1000/1500VDC
Working temperature (°C)	-40 ~ + 85
Wind load (PA)	2400
Snow load (PA)	5400
Appropriate types	A Grade

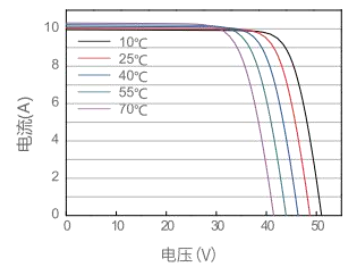
电流-电压曲线 ZKX-380W



功率-电压曲线 ZKX-380W



电流-电压曲线 ZKX-380W



Electrical parameters							
Component series	SANG-xxxM-144						
Power Rating	410	405	400	395	390	385	380
Maximum power voltage (V)	42.31	42.01	41.71	41.41	41.11	40.81	40.51
Maximum power current (A)	9.71	9.66	9.61	9.56	9.50	9.45	9.39
Open circuit voltage -Voc (V)	50.41	50.11	49.81	49.51	49.31	49.11	48.91
Short-circuit current-Isc (A)	10.61	10.49	10.37	10.24	10.13	9.93	9.75
Module efficiency (%)	20.23	19.98	19.74	19.49	19.24	19.00	18.75
Power tolerance	0~+5W						
Maximum power temperature coefficient	-0.37%/K						
Open circuit voltage temperature coefficient	-0.28%/K						
Short circuit current temperature coefficient	+ 0.05%/K						
Overload current	15A/20A						
Packaging&Transport							
40'HQ container transport	31 Pcs/carton × 22 box = 682 Pcs						
Quality assurance							
The company guarantees that all the components sold have zero defects in materials and processes within 12 years, and the power is not less than 90% within 10 years, and not less than 80% within 25 years							

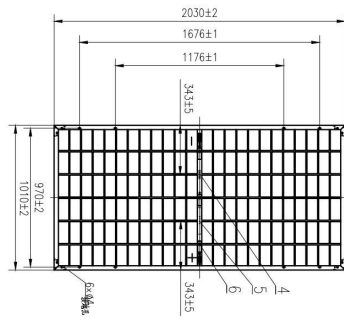
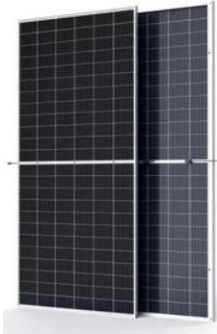
Bi-facial D-glass Mono 158mm Halfcut 144cell (MOQ 500kw)

Output: 380-410w

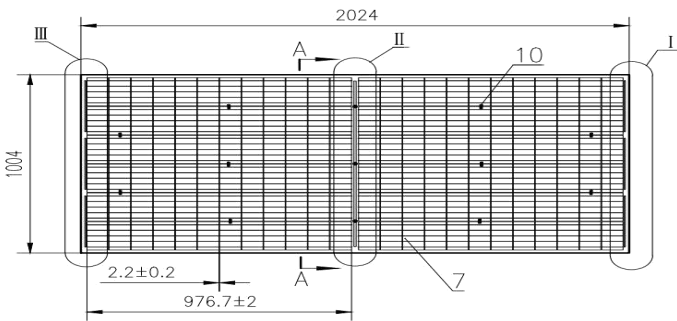
Type: Singal/Bifacial

Dimension: 2030*1010*40mm

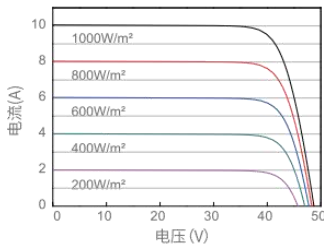
Hot Model for Distributed Station: Small size, light weight, flexible fit



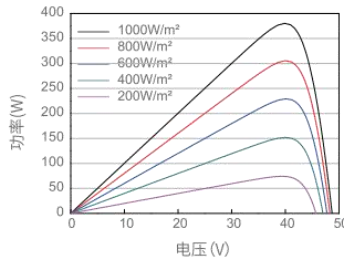
Mechanical parameters	
Solar cell (mm)	Mono crystalline 158.75 × 79.375
Cell type	144 (6×12+6×12)
Module size (length x width x height) (mm)	2030 × 1010 × 40 (border)
Cable length (mm)	750+250
Weight (kg)	23±0.5
Number of diodes	3
Working environment	
System voltage (V)	1500VDC
Working temperature (°C)	-40 ~ +85
Wind load (PA)	2400
Snow load (PA)	5400
Appropriate types	A Grade



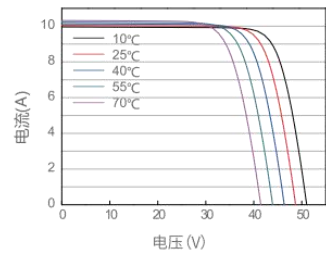
电流-电压曲线 ZKX-380W



功率-电压曲线 ZKX-380W



电流-电压曲线 ZKX-380W



Electrical parameters							
Component series	SANG-xxxM-144 (GD)						
Power Rating	410	405	400	395	390	385	380
Maximum power voltage (V)	45.35	42.05	41.75	41.45	41.15	40.85	40.55
Maximum power current (A)	9.71	9.64	9.59	9.53	9.48	9.43	9.38
Open circuit voltage -Voc (V)	50.15	49.95	49.75	49.55	49.35	49.15	48.95
Short-circuit current-Isc (A)	10.79	10.63	10.46	10.29	10.11	9.91	9.74
Module efficiency (%)	19.99	19.75	19.50	19.26	19.02	18.77	18.53
Power tolerance	0~+5W						
Maximum power temperature coefficient	-0.36%/K						
Open circuit voltage temperature coefficient	-0.28%/K						
Short circuit current temperature coefficient	+ 0.05%/K						
Overload current	15A/20A						
Packaging&Transport							
40'HQ container transport	31 Pcs/carton × 22 box = 682 Pcs						
Quality assurance							
The company guarantees that all the components sold have zero defects in materials and processes within 12 years, and the power is not less than 90% within 10 years, and not less than 80% within 25 years.							

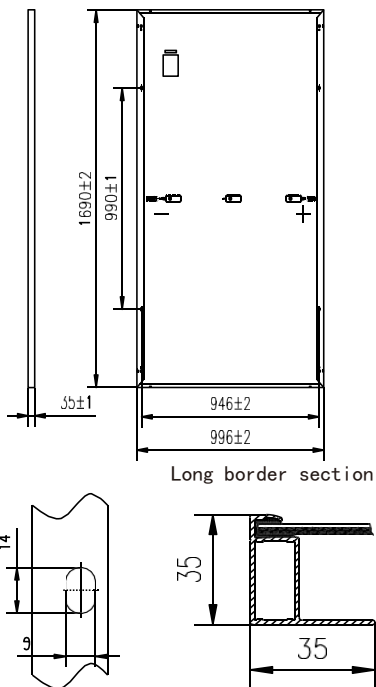
Mono 158mm Halfcut 120cell (MOQ 500kw)

Output: 325-345w

Dimension: 1690*996*35mm

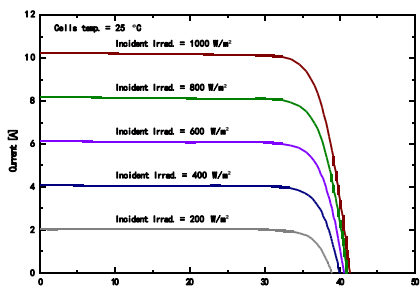


PV Module Dimension

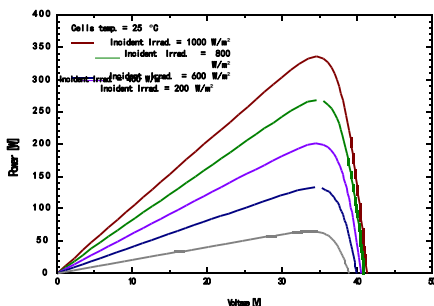


Long border section

I-V Curves of PV Module



P-V Curves of PV Module



Electrical Parameter(STC)					
Model	325M	330M	335M	340M	345M
Maximum power	325	330	335	340	345
Working point voltage	33.90	34.20	34.45	34.72	34.99
Working point current	9.59	9.66	9.74	9.81	9.86
Open circuit voltage	40.70	41.00	41.30	41.60	41.90
Short circuit current	10.08	10.16	10.23	10.30	10.37
PV module efficiency	19.31%	19.61%	19.90%	20.20%	20.50%
Standard test conditions	Atmospheric quality Am1.5, Irradiance 1000w/m², Cell Temperature 25°C				

Electrical Parameters (NMOT)					
Model	325M	330M	335M	340M	345M
Maximum power	241.2	244.6	248.5	252.4	254.7
Working point voltage	31.40	31.60	31.90	32.20	32.40
Working point current	7.68	7.74	7.79	7.84	7.86
Open circuit voltage	37.80	38.00	38.30	38.50	38.60
Short circuit current	8.14	8.21	8.26	8.32	8.38
NMOT	The irradiance is 800W/m, the ambient temperature is 20 degrees, and the wind speed is 1m/s				
The Electrical performance parameters are neither just referred to one PV panel, nor are a part of the contract; They are only used as reference.					

Mechanical Parameters	
Module size	1690*996*35mm
Number of solar cells	120pcs (2*6*10)
Weight	18Kg ±5%
Junction Box	IP67、MC4 compatible
Cables	4mm², cable length 900mm (Customizable)
Front plate glass	3.2mm,Ultra white&Minus reflection film toughened glass
Static load on the front	5400Pa
Static load on the back	2400Pa

Packaging&Transport	
40'HQ container transport	31 Pcs/box × 26 box = 806 Pcs
17.5m truck transport	32 Pcs/box × 40 box = 1280 Pcs

Maximum Ratings		
Working temperature	-40~+85°C	
Maximum system voltage	1000VDC	1500VDC (Custom made)
Maximum fuse rated current	15A	

Temperature Parameter	
NMOT	45±2°C
Temperature coefficient of maximum power(Pmax)	-0.35%/°C
Temperature coefficient of open circuit voltage(Voc)	-0.30%/°C
Temperature coefficient of short circuit voltage(Isc)	+0.050%/°C



HELP YOUR BUSINESS GROW



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