



JINYUAN

UNLOCKING SOLAR · TRANSFORMING LIVES

SOLAR

PRODUCTION / INNOVATION / CUSTOMIZATION



About Us

Founded in 2004, Guangdong Jinyuan Solar Energy Co.,Ltd-Former Name: Guangdong Jinyuan Lighting Technology Co.,Ltd is one of few companies worldwide that specialize in R&D, production and sales of solar renewable energy, LED lighting products including LED chips encapsulation.

With the titles of "Backbone enterprises of strategic emerging industries", "State-level high-tech&Innovative enterprises" and "National Enterprises of Superior Intellectual Property" ISO advanced management system certification, CQC, TUV, UL, CE and other domestic and foreign product professional certification are available.

TUV certified highly intelligent automatic photovoltaic module production lines, as well as the advanced experimental production equipment are set. With a complete industrial chain for the preponderant price and quality ; Through innovative and independent research and development, and the application of industry-leading technology, we have a full range of customized services to provide global customers with green energy solutions.



Highlights



Assembled with multi-busbar cells , reduce shading effect on the energy generation, lower risk of hot spot.



Pass the test for weather resistance in harsh environments (salt mist, ammonia corrosion and sand).



Excellent encapsulating materials and strict production process to ensure highly resistance against PID (Potential Induced Degradation) of PV module.



Lower oxygen and carbon content result in lower LID.



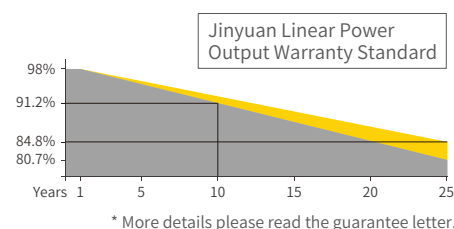
Series and parallel design, reduce the series resistance RS of module, reduce the loss of internal electrical performance, and improve the power generation capacity of whole system.



Cutting solar cell technology, which significantly reduces string current and module damage, it is good choice for projects in high temperature areas.

Jinyuan Offers Long-term Quality Assurance

- 12 years Product Warranty
- 25 years Linear Power Output Warranty
- The attenuation of the power output in the first year $\leq 2\%$
The annual average attenuation after the first year $\leq 0.55\%$



166 JY3MxxxH60(H) | Multi Busbar Monocrystalline Half Cell PV Module

Power Output : 365W - 400W
Power Tolerance : 0W ~ +5W
Maximum Efficiency : 22.0%

Electrical performance parameters | STC

Power Output	Pmax(W)	365	370	375	380	385	390	395	400
Rated Power Maximum Voltage	Vmp(V)	34.30	34.60	34.90	35.20	35.50	35.80	36.10	36.40
Rated Power Maximum Current	Imp(A)	10.65	10.70	10.75	10.80	10.85	10.90	10.95	11.01
Open Circuit Voltage	Voc(V)	40.40	40.60	40.80	41.00	41.20	41.40	41.60	41.80
Short Circuit Current	Isc(A)	11.16	11.26	11.35	11.45	11.49	11.54	11.59	11.64
Module Efficiency	(%)	20.0	20.3	20.6	20.9	21.1	21.4	21.7	22.0
Power Tolerance	(W)	0~+5W							

* STC : 1000W/m2 irradiance, 25°C module temperature, AM1.5 spectrum.

Power measurement error +/- 3%

Electrical performance parameters | NMOT

Power output	Pmax (W)	273.7	277.1	280.6	284.1	287.5	291.0	294.6	298.1
Rated Power Maximum Voltage	Vmp (V)	31.90	32.18	32.46	32.74	33.02	33.30	33.58	33.86
Rated Power Maximum Current	Imp (A)	8.58	8.61	8.64	8.68	8.71	8.74	8.77	8.80
Open Circuit Voltage	Voc (V)	38.40	38.64	38.88	39.12	39.36	39.60	39.84	40.08
Short Circuit Current	Isc (A)	9.12	9.15	9.18	9.21	9.24	9.29	9.32	9.35

* NMOT:800W/m2 irradiance, 20°C module temperature, 1m/s wind speed.

Power measurement error +/- 3%

Structure Features

Solar Cell	166MONO(Half Cell)
Solar Cell Array	120 pcs(6x20)
Module Dimension	1755×1038×35mm
Weight	20.0 kg
Glass	3.2 mm (0.13 inches) highly transparent anti-reflection coating tempered glass
Back sheet	White
Frame	Anodized Aluminum Alloy
Junction Box	IP68 rated
Cable	4mm ² , L=300 mm, PV cable
Diode Quantity	3
Wind Pressure/Snow Pressure	2400pa / 5400pa
Connector	MC4 Compatible

* More details please read the installation manual.

Temperature Characteristics

Solar Cells Rated Working Temperature	44±2°C
Temperature Coefficient (Isc)	+0.06%/°C
Temperature Coefficient (Voc)	-0.35%/°C
Temperature Coefficient (Pmax)	-0.38%/°C

Maximum Ratings

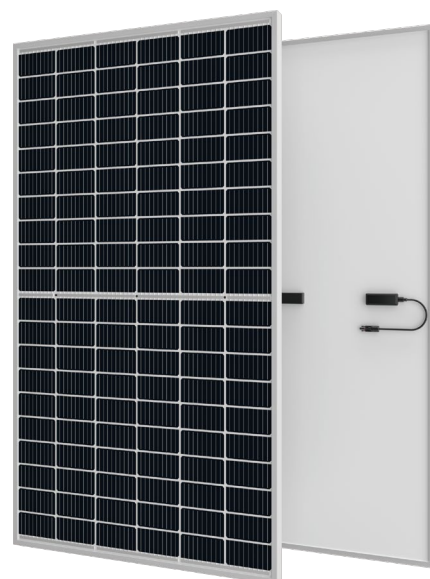
Working Temperature	-40~+85°C
Maximum System Voltage	1500V DC
Maximum Fuse Rated Current	20A

Optional

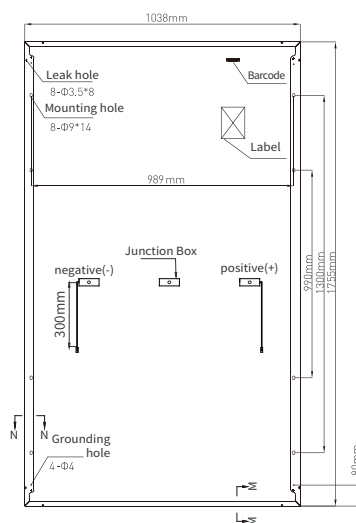
Connector	<input type="checkbox"/> Original MC4
Cable length	<input type="checkbox"/> 1000mm <input type="checkbox"/> 900mm
Frame	<input type="checkbox"/> Black
Solar Module Dimension	<input type="checkbox"/> 1755x1038x40mm
Back sheet color	<input type="checkbox"/> Black <input type="checkbox"/> Transparency

Packaging

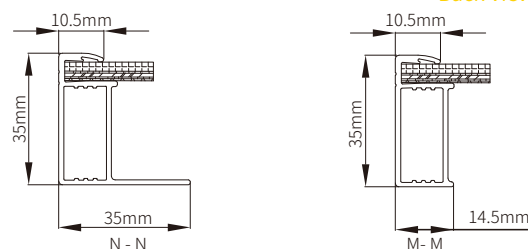
Number of modules per pallet	31 pcs
17.5*2.8m	Flatbed loading 1116 pcs
13.0*2.35m	Flatbed loading 868 pcs
20GP	Standard container 186 pcs
40HQ	Standard container 806 pcs



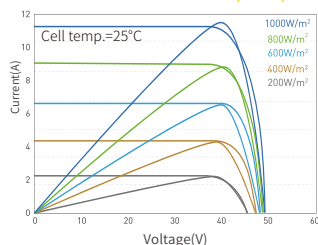
Module Dimension



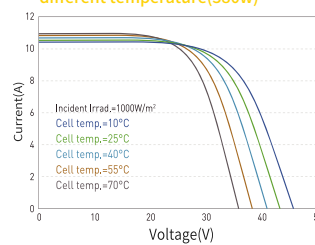
Back View



I-V curves/P-V curves of module under different irradiance(380w)



I-V curves of module under different temperature(380w)



166 JY3MxxxH72(H) | Multi Busbar Monocrystalline Half Cell PV Module

Power Output : 440W - 475W
Power Tolerance : 0W ~ +5W
Maximum Efficiency : 21.9%

Electrical performance parameters | STC

Power Output	Pmax(W)	440	445	450	455	460	465	470	475
Rated Power Maximum Voltage	Vmp(V)	41.50	41.70	42.00	42.20	42.40	42.60	42.80	43.00
Rated Power Maximum Current	Imp(A)	10.61	10.68	10.73	10.79	10.85	10.91	10.97	11.03
Open Circuit Voltage	Voc(V)	49.00	49.20	49.40	49.60	49.80	50.00	50.20	50.40
Short Circuit Current	Isc(A)	11.27	11.32	11.37	11.42	11.47	11.52	11.57	11.62
Module Efficiency	(%)	20.20	20.50	20.70	20.90	21.20	21.40	21.60	21.90
Power Tolerance	(W)	0~+5W							

* STC : 1000W/m2 irradiance, 25°C module temperature, AM1.5 spectrum.

Power measurement error +/- 3%

Electrical performance parameters | NMOT

Power output	Pmax (W)	321.0	324.8	328.6	332.4	336.2	340.0	343.9	347.7
Rated Power Maximum Voltage	Vmp (V)	37.84	38.13	38.42	38.71	39.00	39.29	39.58	39.87
Rated Power Maximum Current	Imp (A)	8.48	8.52	8.55	8.59	8.62	8.65	8.69	8.72
Open Circuit Voltage	Voc (V)	45.56	45.82	46.08	46.34	46.60	46.86	47.12	47.38
Short Circuit Current	Isc (A)	9.12	9.14	9.17	9.19	9.22	9.25	9.27	9.30

* NMOT:800W/m2 irradiance, 20°C module temperature, 1m/s wind speed.

Power measurement error +/- 3%

Structure Features

Solar Cell	166MONO(Half Cell)
Solar Cell Array	144 pcs(6×24)
Module Dimension	2094×1038×35mm
Weight	23.3 kg
Glass	3.2 mm (0.13 inches) highly transparent anti-reflection coating tempered glass
Back sheet	White
Frame	Anodized Aluminum Alloy
Junction Box	IP68 rated
Cable	4mm ² , L=300 mm, PV cable
Diode Quantity	3
Wind Pressure/Snow Pressure	2400pa / 5400pa
Connector	MC4 Compatible

* More details please read the installation manual.

Temperature Characteristics

Solar Cells Rated Working Temperature	44±2°C
Temperature Coefficient (Isc)	+0.06%/°C
Temperature Coefficient (Voc)	-0.35%/°C
Temperature Coefficient (Pmax)	-0.38%/°C

Maximum Ratings

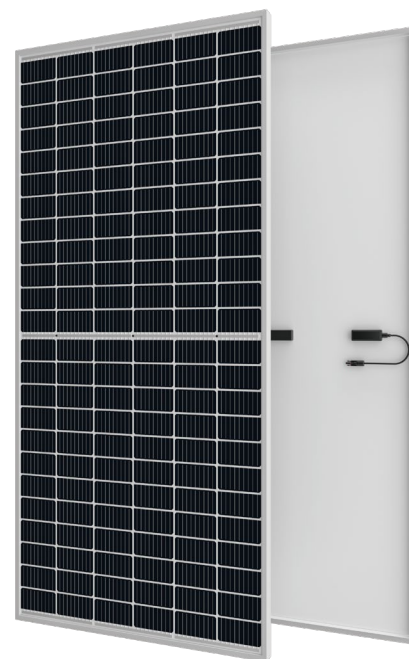
Working Temperature	-40~+85°C
Maximum System Voltage	1500V DC
Maximum Fuse Rated Current	20A

Optional

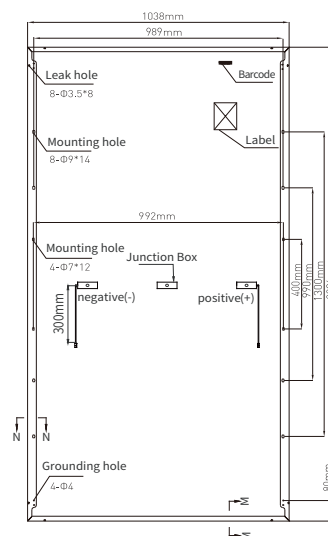
- Connector ☐ Original MC4
- Cable length ☐ 1000mm ☐ 900mm
- Frame ☐ Black
- Solar Module Dimension ☐ 2094x1038x40mm
- Back sheet color ☐ Black ☐ Transparency

Packaging

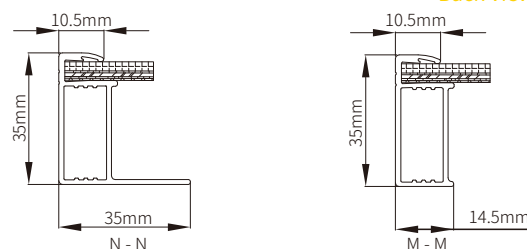
- Number of modules per pallet 31 pcs
- 17.5*2.8m Flatbed loading 992 pcs
- 13.0*2.35m Flatbed loading 744 pcs
- 20GP Standard container 155 pcs
- 40HQ Standard container 682 pcs



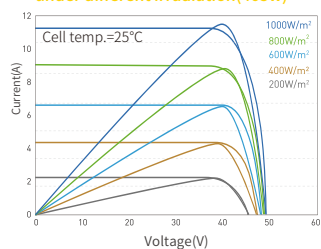
Module Dimension



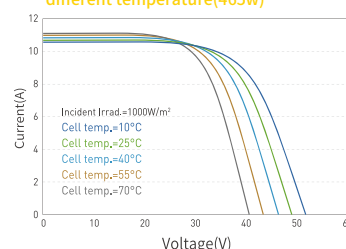
Back View



I-V curves/P-V curves of module under different irradiation(465w)



I-V curves of module under different temperature(465w)



166 JY3MxxxH72(DH)-DGB | Multi Busbar Monocrystalline Half Cell PV Module

Power Output : 440W - 475W
Power Tolerance : 0W ~ +5W
Maximum Efficiency : 21.9%

Electrical performance parameters | STC

Power Output	Pmax(W)	440	445	450	455	460	465	470	475
Rated Power Maximum Voltage	Vmp(V)	41.01	41.25	41.56	41.83	42.11	42.37	42.65	42.91
Rated Power Maximum Current	Imp(A)	10.73	10.79	10.83	10.88	10.93	10.98	11.02	11.07
Open Circuit Voltage	Voc(V)	48.51	48.89	49.26	49.61	49.96	50.32	50.67	51.03
Short Circuit Current	Isc(A)	11.27	11.33	11.37	11.42	11.47	11.52	11.56	11.61
Module Efficiency	(%)	20.20	20.50	20.70	20.90	21.20	21.40	21.60	21.90
Power Tolerance	(W)	0~-+5W							

* STC : 1000W/m2 irradiance, 25°C module temperature, AM1.5 spectrum.

Power measurement error +/- 3%

Electrical characteristics with different rear side power gain(450W)

Double side power gain		10%	15%	20%	25%
Power output	Pmax(W)	495	518	540	563
Open Circuit Voltage	Voc (V)	49.70	49.70	49.70	49.70
Short Circuit Current	Isc (A)	12.65	13.23	13.80	14.38
Rated Power Maximum Voltage	Vmp(V)	41.30	41.30	41.30	41.30
Rated Power Maximum Current	Imp(A)	11.99	12.54	13.08	13.63

* Rear side power gain:The additional gain from the rear side compared to the power of the front side at the standard test condition. It depends on mounting (structure,height,tilt angle etc.)and albedo of the ground.

Electrical performance parameters | NMOT

Power output	Pmax (W)	328.3	332.0	335.8	339.6	343.3	347.1	350.9	354.8
Rated Power Maximum Voltage	Vmp (V)	38.40	38.7	39.00	39.30	39.60	39.90	40.20	40.50
Rated Power Maximum Current	Imp (A)	8.55	8.58	8.61	8.64	8.67	8.70	8.73	8.76
Open Circuit Voltage	Voc (V)	45.30	45.60	45.90	46.20	46.50	46.80	47.10	47.40
Short Circuit Current	Isc (A)	9.04	9.07	9.10	9.13	9.16	9.19	9.22	9.25

* NMOT:800W/m2 irradiance, 20°C module temperature, 1m/s wind speed.

Power measurement error +/- 3%

Structure Features

Solar Cell	166MONO(Half Cell)
Solar Cell Array	144 pcs(6×24)
Module Dimension	2094×1038×30mm
Weight	26.7 kg
Glass	2.0mm highly transparent anti-reflection coating tempered glass
Back sheet	2.0mm highly transparent tempered glass
Frame	Anodized Aluminum Alloy
Junction Box	IP68 rated
Cable	4mm ² , L=300 mm, PV cable
Diode Quantity	3
Wind Pressure/Snow Pressure	2400pa / 5400pa
Connector	MC4 Compatible

* More details please read the installation manual.

Temperature Characteristics

Solar Cells Rated Working Temperature	44±2°C
Temperature Coefficient (Isc)	+0.06%/°C
Temperature Coefficient (Voc)	-0.35%/°C
Temperature Coefficient (Pmax)	-0.38%/°C

Maximum Ratings

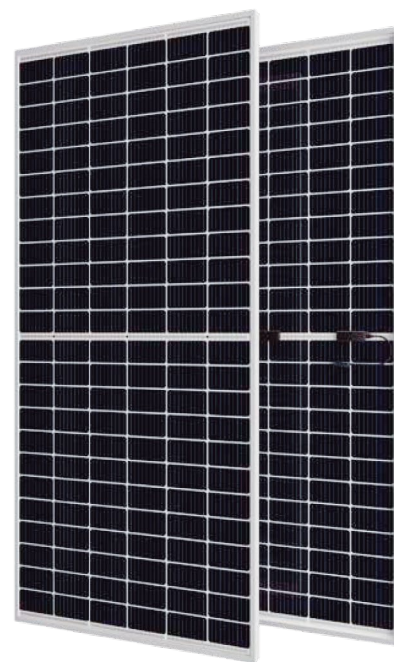
Working Temperature	-40~+85°C
Maximum System Voltage	1500V DC
Maximum Fuse Rated Current	25A

Optional

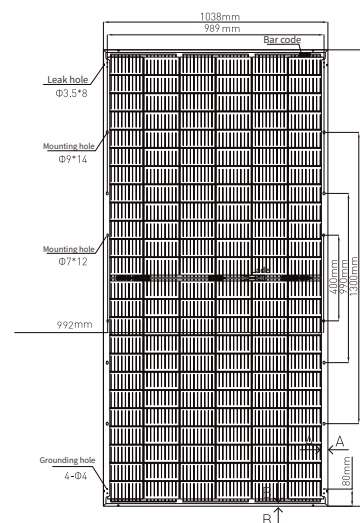
Connector	<input type="checkbox"/> Original MC4
Cable length	<input type="checkbox"/> 1000mm <input type="checkbox"/> 900mm
Frame	<input type="checkbox"/> Black
Solar Module Dimension	<input type="checkbox"/> 2088x1032x6mm
Glass type	<input type="checkbox"/> Glazed <input type="checkbox"/> Transparency

Packaging

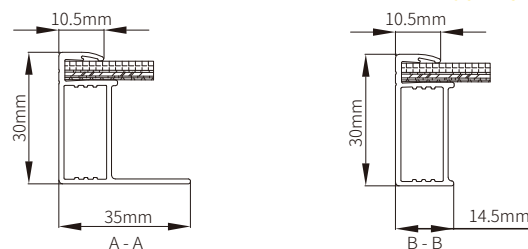
Number of modules per pallet	36 pcs
17.5*2.8m Flatbed loading	1044 pcs
13.0*2.35m Flatbed loading	792pcs
20GP Standard container	180 pcs
40HQ Standard container	792 pcs



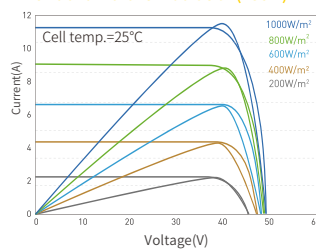
Module Dimension



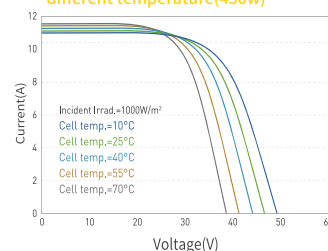
Back View



I-V curves/P-V curves of module under different irradiation(450w)



I-V curves of module under different temperature(450w)



182 JY4MxxxH54(H) | Multi Busbar Monocrystalline Half Cell PV Module

Power Output : 385W - 420W

Power Tolerance : 0W ~ +5W

Maximum Efficiency : 21.5%

Electrical performance parameters | STC

Power Output	Pmax(W)	385	390	395	400	405	410	415	420
Rated Power Maximum Voltage	Vmp(V)	30.50	30.60	30.80	31.00	31.20	31.40	31.60	31.80
Rated Power Maximum Current	Imp(A)	12.64	12.73	12.81	12.90	12.98	13.04	13.13	13.22
Open Circuit Voltage	Voc(V)	36.70	36.90	37.00	37.10	37.20	37.30	37.50	37.70
Short Circuit Current	Isc(A)	13.52	13.61	13.70	13.79	13.87	13.95	14.02	14.09
Module Efficiency	(%)	19.7	20.0	20.2	20.5	20.7	21.0	21.3	21.5
Power Tolerance	(W)	0~+5W							

* STC : 1000W/m2 irradiance, 25°C module temperature, AM1.5 spectrum.

Power measurement error +/- 3%

Electrical performance parameters | NMOT

Power output	Pmax (W)	291.4	295.2	299.0	302.8	306.6	310.4	314.2	317.9
Rated Power Maximum Voltage	Vmp (V)	28.27	28.37	28.55	28.74	28.92	29.11	29.29	29.48
Rated Power Maximum Current	Imp (A)	10.30	10.37	10.44	10.51	10.58	10.63	10.70	10.77
Open Circuit Voltage	Voc (V)	34.64	34.83	34.93	35.02	35.11	35.21	35.40	35.59
Short Circuit Current	Isc (A)	10.82	10.89	10.96	11.03	11.10	11.16	11.21	11.27

* NMOT: 800W/m2 irradiance, 20°C module temperature, 1m/s wind speed.

Power measurement error +/- 3%

Structure Features

Solar Cell	182MONO(Half Cell)
Solar Cell Array	108 pcs(6×18)
Module Dimension	1722×1134×35mm
Weight	20.8 kg
Glass	3.2 mm (0.13 inches) highly transparent anti-reflection coating tempered glass
Back sheet	White
Frame	Anodized Aluminum Alloy
Junction Box	IP68 rated
Cable	4mm ² , L=300 mm, PV cable
Diode Quantity	3
Wind Pressure/Snow Pressure	2400pa / 5400pa
Connector	MC4 Compatible

* More details please read the installation manual.

Temperature Characteristics

Solar Cells Rated Working Temperature	44±2°C
Temperature Coefficient (Isc)	+0.06%/°C
Temperature Coefficient (Voc)	-0.35%/°C
Temperature Coefficient (Pmax)	-0.38%/°C

Optional

- Connector ☐ Original MC4
- Cable length ☐ 1000mm ☐ 900mm
- Frame ☐ Black
- Solar Module Dimension ☐ 1722x1134x40mm
- Back sheet color ☐ Black ☐ Transparency

Maximum Ratings

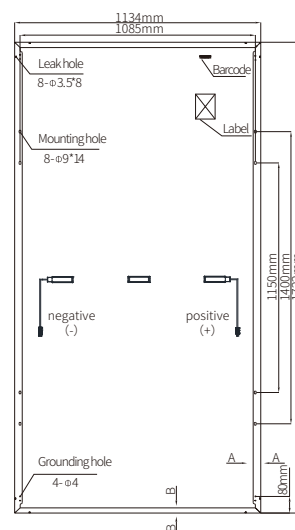
Working Temperature	-40~+85°C
Maximum System Voltage	1500V DC
Maximum Fuse Rated Current	25A

Packaging

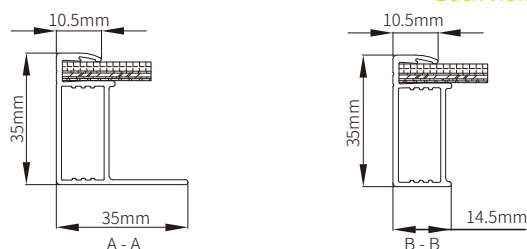
- Number of modules per pallet 31 pcs
- 17.5*2.8m Flatbed loading 1178 pcs
- 13.0*2.35m Flatbed loading 868 pcs
- 40HQ Standard container 806 pcs



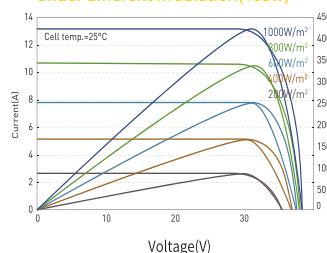
Module Dimension



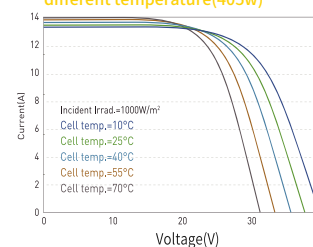
Back View



I-V curves/P-V curves of module under different irradiance(405w)



I-V curves of module under different temperature(405w)



182 JY4MxxxH72(H) | Multi Busbar Monocrystalline Half Cell PV Module

Power Output : 540W - 560W
 Power Tolerance : 0W ~ +5W
 Maximum Efficiency : 21.7%

Electrical performance parameters | STC

Power Output	Pmax(W)	540	545	550	555	560
Rated Power Maximum Voltage	Vmp(V)	40.80	40.90	41.00	41.10	41.20
Rated Power Maximum Current	Imp(A)	13.27	13.36	13.45	13.54	13.63
Open Circuit Voltage	Voc(V)	49.50	49.60	49.70	49.80	49.90
Short Circuit Current	Isc(A)	13.85	13.94	14.03	14.12	14.21
Module Efficiency	(%)	20.9	21.1	21.3	21.5	21.7
Power Tolerance	(W)	0~+5W				

* STC : 1000W/m2 irradiance, 25°C module temperature, AM1.5 spectrum.

Power measurement error +/- 3%

Electrical performance parameters | NMOT

Power output	Pmax (W)	408.8	412.6	416.4	420.1	423.9
Rated Power Maximum Voltage	Vmp (V)	37.82	37.91	38.00	38.10	38.19
Rated Power Maximum Current	Imp (A)	10.81	10.89	10.96	11.04	11.11
Open Circuit Voltage	Voc (V)	46.73	46.82	46.92	47.01	47.11
Short Circuit Current	Isc (A)	11.08	11.15	11.22	11.30	11.37

* NMOT:800W/m2 irradiance, 20°C module temperature, 1m/s wind speed.

Power measurement error +/- 3%

Structure Features

Solar Cell	182MONO(Half Cell)
Solar Cell Array	144 pcs(6×24)
Module Dimension	2278×1134×35mm
Weight	28.3 kgs
Glass	3.2 mm (0.13 inches) highly transparent anti-reflection coating tempered glass
Back sheet	White
Frame	Anodized Aluminum Alloy
Junction Box	IP68 rated
Cable	4mm ² , L=300 mm, PV cable
Diode Quantity	3
Wind Pressure/Snow Pressure	2400pa / 5400pa
Connector	MC4 Compatible

* More details please read the installation manual.

Temperature Characteristics

Solar Cells Rated Working Temperature	44±2°C
Temperature Coefficient (Isc)	+0.06%/°C
Temperature Coefficient (Voc)	-0.35%/°C
Temperature Coefficient (Pmax)	-0.38%/°C

Optional

- Connector ☐ Original MC4
- Cable length ☐ 1000mm ☐ 900mm
- Frame ☐ Black
- Solar Module Dimension ☐ 2278x1134x40mm
- Back sheet color ☐ Black ☐ Transparency

Maximum Ratings

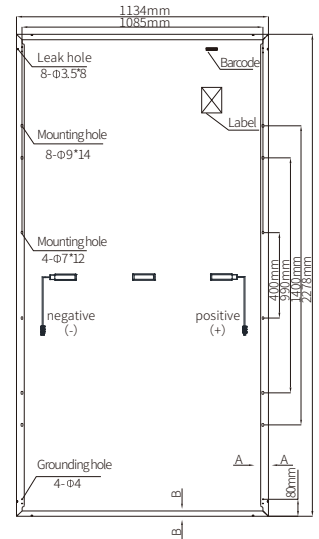
Working Temperature	-40~+85°C
Maximum System Voltage	1500V DC
Maximum Fuse Rated Current	25A

Packaging

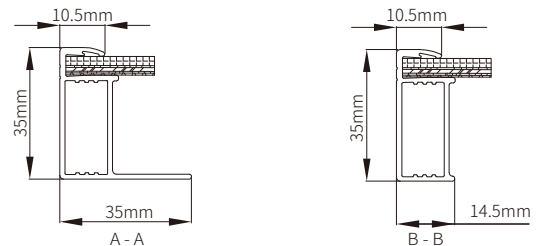
- Number of modules per pallet 31 pcs
- 17.5*2.8m Flatbed loading 930 pcs
- 13.0*2.35m Flatbed loading 682 pcs
- 40HQ Standard container 620 pcs



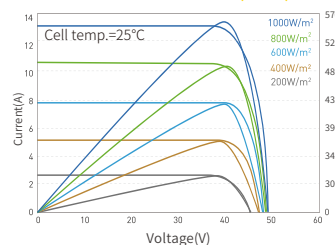
Module Dimension



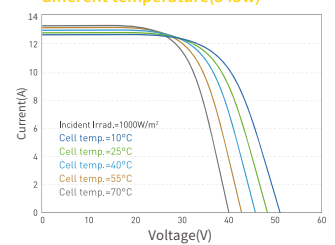
Back View



I-V curves/P-V curves of module under different irradiance(545w)



I-V curves of module under different temperature(545w)



182 JY4MxxxH72(DH)-DGB | Multi Busbar Monocrystalline Half Cell PV Module

Power Output : 535W - 555W

Power Tolerance : 0W ~ +5W

Maximum Efficiency : 21.5%

Electrical performance parameters | STC

Power Output	Pmax(W)	535	540	545	550	555
Rated Power Maximum Voltage	Vmp(V)	41.00	41.10	41.30	41.50	41.70
Rated Power Maximum Current	Imp(A)	13.07	13.13	13.19	13.25	13.31
Open Circuit Voltage	Voc(V)	49.60	49.70	49.90	50.10	50.30
Short Circuit Current	Isc(A)	13.83	13.89	13.95	14.01	14.07
Module Efficiency	(%)	20.7	20.9	21.1	21.3	21.5
Power Tolerance	(W)	0~+5W				

* STC : 1000W/m2 irradiance, 25°C module temperature, AM1.5 spectrum.

Power measurement error +/- 3%

Electrical characteristics with different rear side power gain(545W)

Double side power gain		10%	15%	20%	25%
Power output	Pmax(W)	560	627	654	681
Open Circuit Voltage	Voc (V)	49.92	49.92	49.92	49.92
Short Circuit Current	Isc (A)	15.35	16.04	16.74	17.44
Rated Power Maximun Voltage	Vmp(V)	41.32	41.32	41.32	41.32
Rated Power Maximun Current	Imp(A)	14.51	15.17	15.83	16.49

* Rear side power gain:The additional gain from the rear side compared to the power of the front side at the standard test condition. It depends on mounting (structure,height,tilt angle etc.)and albedo of the ground.

Electrical performance parameters | NMOT

Power output	Pmax (W)	404.5	408.2	412.0	415.8	419.6
Rated Power Maximum Voltage	Vmp (V)	38.01	38.10	38.29	38.47	38.66
Rated Power Maximum Current	Imp (A)	10.65	10.70	10.75	10.80	10.85
Open Circuit Voltage	Voc (V)	47.12	47.22	47.41	47.60	47.79
Short Circuit Current	Isc (A)	11.06	11.11	11.16	11.21	11.26

* NMOT:800W/m2 irradiance, 20°C module temperature, 1m/s wind speed.

Power measurement error +/- 3%

Structure Features

Solar Cell	182MONO(Half Cell)
Solar Cell Array	144 pcs(6×24)
Module Dimension	2278×1134×30mm
Weight	32.7 kgs
Glass	2.0mm highly transparent anti-reflection coating tempered glass
Back sheet	2.0mm highly transparent tempered glass
Frame	Anodized Aluminum Alloy
Junction Box	IP68 rated
Cable	4mm ² , L=300 mm, PV cable
Diode Quantity	3
Wind Pressure/Snow Pressure	2400pa / 5400pa
Connector	MC4 Compatible

* More details please read the installation manual.

Temperature Characteristics

Solar Cells Rated Working Temperature	44±2°C
Temperature Coefficient (Isc)	+0.06%/°C
Temperature Coefficient (Voc)	-0.35%/°C
Temperature Coefficient (Pmax)	-0.38%/°C

Maximum Ratings

Working Temperature	-40~+85°C
Maximum System Voltage	1500V DC
Maximum Fuse Rated Current	30A

Optional

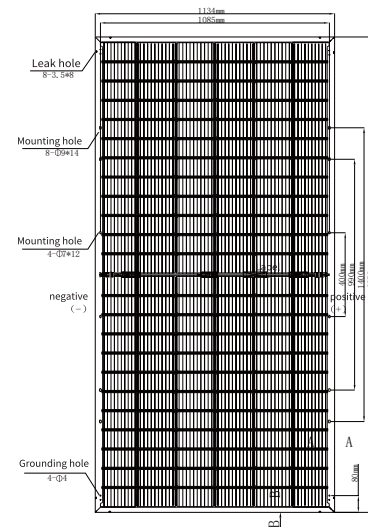
- Connector ☐ Original MC4
- Cable length ☐ 1000mm ☐ 900mm
- Frame ☐ Black
- Solar Module Dimension ☐ 2272x1128x6mm
- Glass type ☐ Glazed ☐ Transparency

Packaging

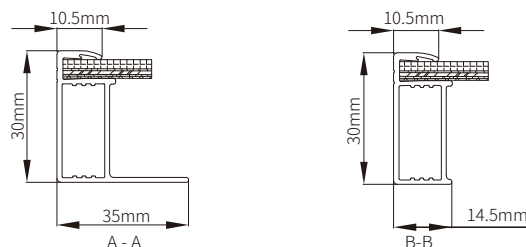
- Number of modules per pallet 36 pcs
- 17.5*2.8m Flatbed loading 864pcs
- 13.0*2.35m Flatbed loading 720pcs
- 40HQ Standard container 720 pcs



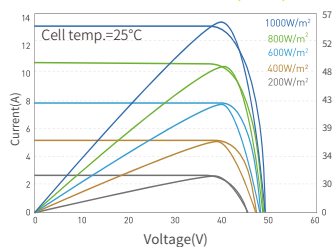
Module Dimension



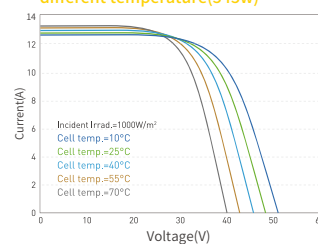
Back View



I-V curves/P-V curves of module under different irradiation(545w)



I-V curves of module under different temperature(545w)



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SOLAR ENERGY



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