



GOLDEN SOLAR

Make Solar Energy More Efficient!

JGDN80B

HJT Bifacial Module



Based on 210mm wafer, N-Type HJT half cut cells



Module power up to 425W, Module efficiency up to 22.40%



Use super MBB half-cut cell technology to minimize micro-crack impacts and no-cutting loss on modules



The front generation power is 30% higher than the conventional module and the back power is 25% higher



No BO-LID, excellent anti-LeTID & anti-PID performance. Low power degradation, high energy yield



Better shading tolerance



Heavy snow load up to 5400 Pa, wind load up to 2400 Pa

395W~425W



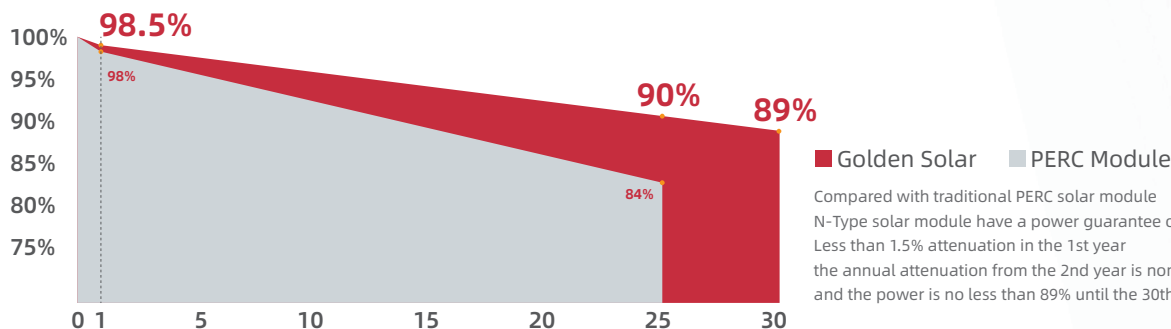
Size < 2 sqm Heterojunction Technology



15-Year Warranty for Materials and Processing



30-Year Warranty for Extra Linear Power Output



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JGDN80B



GOLDEN SOLAR

STC/NMOT

STC (Standard Test Conditions): Irradiance 1000 W/m², Cell temperature :25 °C, AM1.5 .
NMOT (Nominal Module Operating Temperature): Irradiance 800 W/m², AM1.5, temperature 20 °C, wind speed 1 m/s.

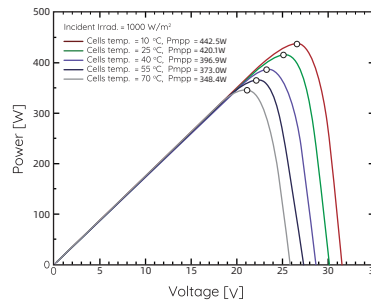
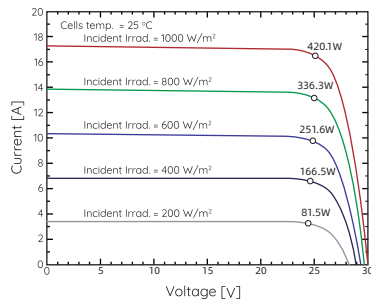
Model	JGDN80-395		JGDN80-400		JGDN80-405		JGDN80-410		JGDN80-415		JGDN80-420		JGDN80-425	
Power Tolerance (0~+5W)	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Pmax (W)	395	305	400	309	405	313	410	317	415	321	420	325	425	329
Vmp (V)	24.18	22.98	24.4	23.21	24.62	23.43	24.83	23.64	25.04	23.87	25.25	24.07	25.46	24.26
Imp (A)	16.33	13.27	16.39	13.31	16.45	13.36	16.51	13.41	16.57	13.45	16.63	13.49	16.69	13.55
Voc (V)	28.77	27.77	29.08	28.03	29.34	28.30	29.61	28.55	29.86	28.81	30.12	29.07	30.38	29.32
Isc (A)	17.16	13.90	17.19	13.95	17.25	14.00	17.31	14.05	17.37	14.10	17.43	14.15	17.49	14.20
Panel Efficiency (%)	21.20		21.40		21.60		21.80		22.00		22.20		22.40	

BSTC

BSTC (Bifacial Standard Test Conditions): Front side irradiation 1000W/m², back side reflection irradiation 135W/m², AM=1.5, ambient temperature 25°C.

Model	JGDN80-395		JGDN 80-400		JGDN80-405		JGDN80-410		JGDN80-415		JGDN80-420		JGDN80-425	
Power Tolerance (0~+5W)	BSTC		BSTC		BSTC		BSTC		BSTC		BSTC		BSTC	
Pmax (W)	436		441		447		452		458		463		469	
Vmp (V)	24.18		24.40		24.62		24.83		25.04		25.25		25.46	
Imp (A)	18.01		18.08		18.14		18.21		18.28		18.34		18.41	
Voc (V)	28.77		29.08		29.34		29.61		29.86		30.12		30.38	
Isc (A)	18.93		18.96		19.03		19.09		19.16		19.23		19.29	

Electrical Curves:



Mechanical Specification

Solar Cell Type	80 half-cut, N-Type, HJT cells
Module Dimensions (mm)	1748×1096×30
Module Weight (kg)	23
Front Cover	Solar glass, 2.0 mm, with anti-reflective surface
Back Cover	Solar glass, 2.0 mm
Frame	Anodized aluminum
Junction Box	3 bypass diodes, IP68 rated, in accordance with IEC 62790
Cables	PV cable 4 mm ² , 0.3 m length, in accordance with EN 50618 (or customized length)
Connectors	MC4-Evo2, in accordance with IEC 62852, IP68 rated only when connected
Packing	36pieces/pallet, 936pieces/ 40'HQ container

Properties of System Design

Maximum System Voltage (V)	1500
Maximum Series Fuse Rating (A)	35
Max. Test Load +/- (incl. Safety Factor of 1.5) (Pa)	5400/2400
Fire Class according to EN 13501-1	CLASS C (EN13501-1)
Operating Temperature (°C)	-40 to +85

Warranty

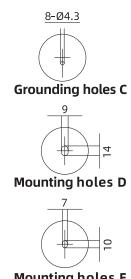
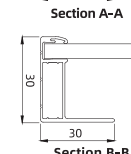
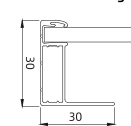
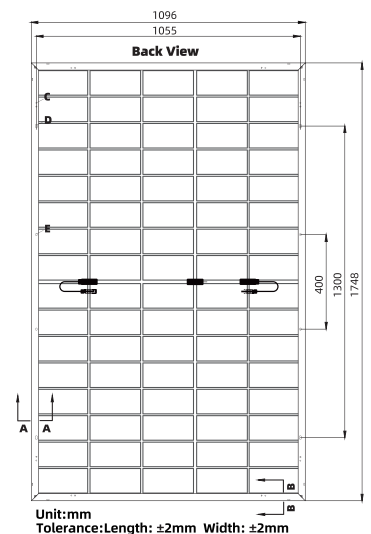
Product Warranty (Y)	15
Power Warranty (Y)	30
Power after 1 Year	≥98.5% of nominal power
Annual Degradation (%/Y)	0.4
Power after 30 years	≥89% of nominal power

Temperature Coefficients

Temperature Coefficient of Isc	+0.026 %/ °C
Temperature Coefficient of Voc	-0.223%/ °C
Temperature Coefficient of Pmax	-0.243%/ °C
Nominal Module Operating Temperature (NMOT)	43±3/ °C



*The specifications and key features contained in this datasheet may deviate slightly from our actual products due to the ongoing innovation and product enhancement. Golden Solar reserves the right to make necessary adjustment to the information described herein at anytime without further notice.





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JGDN90

HJT Bifacial Module

-  Based on 210mm wafer, N-Type bifacial HJT half cut cell
-  Module power up to 480W, Module efficiency up to 22.30%
-  Use super MBB half-cut cell technology to minimize micro-crack impacts and no-cutting loss on modules
-  The front generation power is 30% higher than the conventional module and the back power is 25% higher
-  No BO-LID, excellent anti-LeTID & anti-PID performance. Low power degradation, high energy yield
-  Better shading tolerance
-  Heavy snow load up to 5400 Pa, wind load up to 2400 Pa

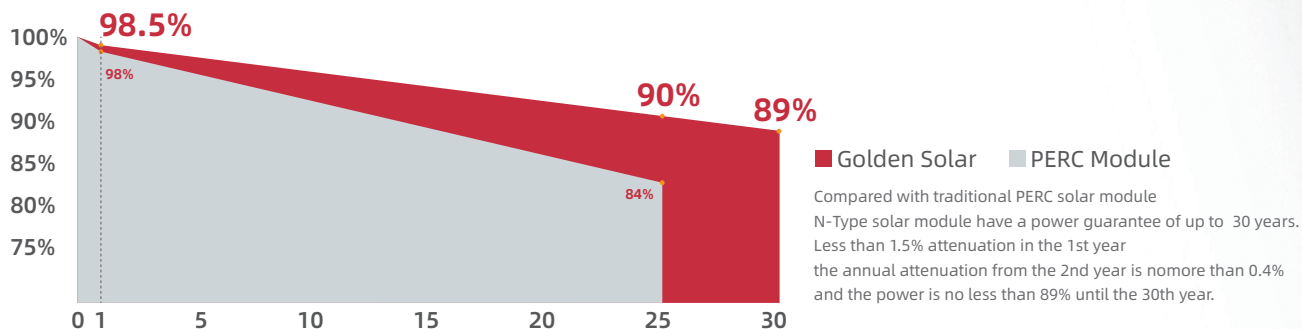
450W~480W



Size > 2 sqm Heterojunction Technology

 15-Year Warranty for Materials and Processing

 30-Year Warranty for Extra Linear Power Output



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STC/NMOT

STC (Standard Test Conditions): Irradiance 1000 W/m², Cell temperature :25 °C, AM1.5 .
NMOT (Nominal Module Operating Temperature): Irradiance 800 W/m², AM1.5, temperature 20 °C, wind speed 1 m/s.

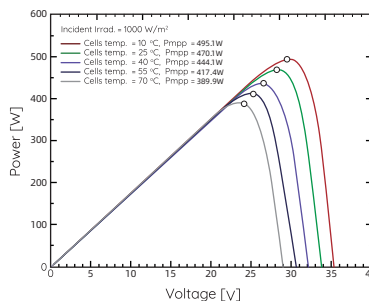
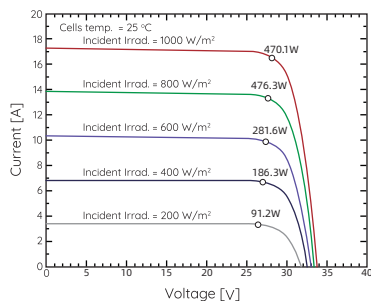
Model	JGDN90-450		JGDN90-455		JGDN90-460		JGDN90-465		JGDN90-470		JGDN90-475		JGDN90-480	
Power Tolerance (0~+5W)	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Pmax (W)	450	348	455	352	460	356	465	360	470	364	475	368	480	372
Vmp (V)	26.22	26.22	27.76	26.44	27.96	26.64	28.16	26.84	28.36	27.06	28.56	27.25	28.76	27.44
Imp (A)	16.33	13.27	16.39	13.31	16.45	13.36	16.51	13.41	16.57	13.45	16.63	13.50	16.69	13.56
Voc (V)	32.78	31.69	33.08	31.94	33.33	32.18	33.57	32.43	33.82	32.67	34.06	32.92	34.30	33.16
Isc (A)	17.16	13.90	17.19	13.95	17.25	14.00	17.31	14.05	17.37	14.10	17.43	14.15	17.49	14.20
Panel Efficiency (%)	21.00		21.20		21.40		21.70		21.90		22.10		22.30	

BSTC

BSTC (Bifacial Standard Test Conditions): Front side irradiation 1000W/m², back side reflection irradiation 135W/m², AM=1.5, ambient temperature 25°C.

Model	JGDN90-450		JGDN90-455		JGDN90-460		JGDN90-465		JGDN90-470		JGDN90-475		JGDN90-480	
Power Tolerance (0~+5W)	BSTC		BSTC		BSTC		BSTC		BSTC		BSTC		BSTC	
Pmax (W)	496		502		507		513		518		524		529	
Vmp (V)	26.22		27.76		27.96		28.16		28.36		28.56		28.76	
Imp (A)	18.01		18.08		18.14		18.21		18.28		18.34		18.41	
Voc (V)	32.78		33.08		33.33		33.57		33.82		34.06		34.30	
Isc (A)	18.93		18.96		19.03		19.09		19.16		19.23		19.29	

Electrical Curves:



Mechanical Specification

Solar Cell Type	90 half-cut, N-Type, HJT cells
Module Dimensions (mm)	1960x1096x35
Module Weight (kg)	26.1
Front Cover	Solar glass, 2.0 mm, with anti-reflective surface
Back Cover	Solar glass, 2.0 mm
Frame	Anodized aluminum
Junction Box	3 bypass diodes, IP68 rated, in accordance with IEC 62790
Cables	PV cable 4 mm ² , 0.3 m length, in accordance with EN 50618 (or customized length)
Connectors	MC4-Evo2, in accordance with IEC 62852, IP68 rated only when connected
Packing	31 pieces/pallet, 744 pieces/ 40'HQ container

Properties of System Design

Maximum System Voltage (V)	1500
Maximum Series Fuse Rating (A)	35
Max. Test Load +/- (incl. Safety Factor of 1.5) (Pa)	5400/2400
Fire Class according to EN 13501-1	CLASS C (EN13501-1)
Operating Temperature (°C)	-40 to +85

Warranty

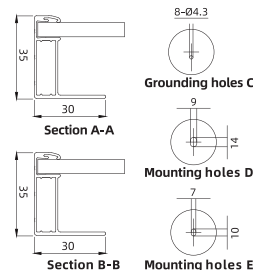
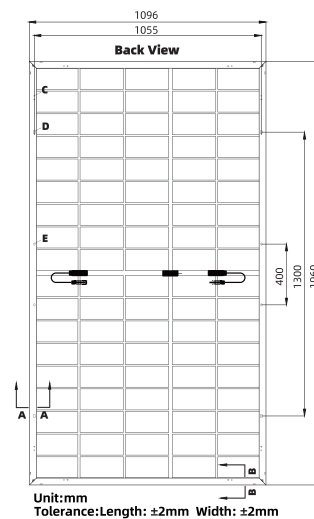
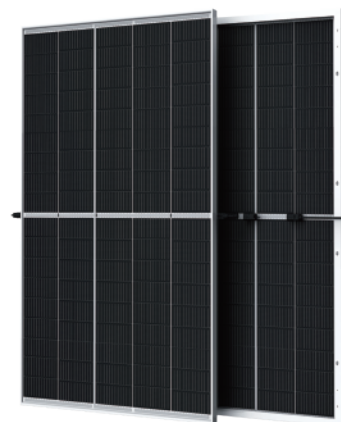
Product Warranty (Y)	15
Power Warranty (Y)	30
Power after 1 Year	≥98.5% of nominal power
Annual Degradation (%/Y)	0.4
Power after 30 years	≥89% of nominal power

Temperature Coefficients

Temperature Coefficient of Isc	+0.026 %/ °C
Temperature Coefficient of Voc	-0.223%/ °C
Temperature Coefficient of Pmax	-0.243%/ °C
Nominal Module Operating Temperature (NMOT)	43±3/ °C



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JGDN100

HJT Bifacial Module



Based on 210mm wafer, N-Type bifacial HJT half cut cells



Module power up to 530W, Module efficiency up to 22.20%



Use super MBB half-cut cell technology to minimize micro-crack impacts and no-cutting loss on modules



The front generation power is 30% higher than the conventional module and the back power is 25% higher



No BO-LID, excellent anti-LeTID & anti-PID performance. Low power degradation, high energy yield



Better shading tolerance



Heavy snow load up to 5400 Pa, wind load up to 2400 Pa

500W~530W



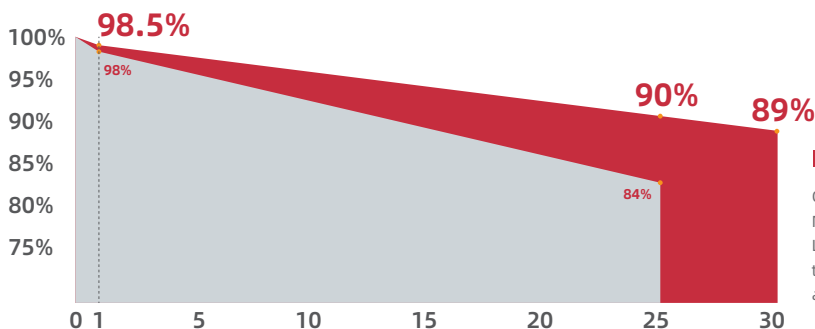
Size > 2 sqm Heterojunction Technology



15-Year Warranty for Materials and Processing



30-Year Warranty for Extra Linear Power Output



■ Golden Solar ■ PERC Module

Compared with traditional PERC solar module N-Type solar module have a power guarantee of up to 30 years. Less than 1.5% attenuation in the 1st year the annual attenuation from the 2nd year is no more than 0.4% and the power is no less than 89% until the 30th year.

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STC/NMOT

STC (Standard Test Conditions): Irradiance 1000 W/m², Cell temperature :25 °C, AM1.5 .
NMOT (Nominal Module Operating Temperature): Irradiance 800 W/m², AM1.5, temperature 20 °C, wind speed 1 m/s.

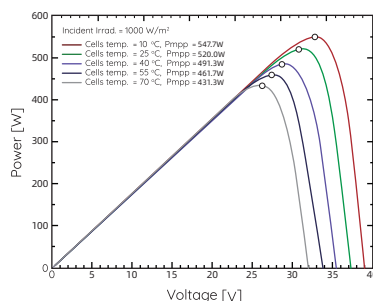
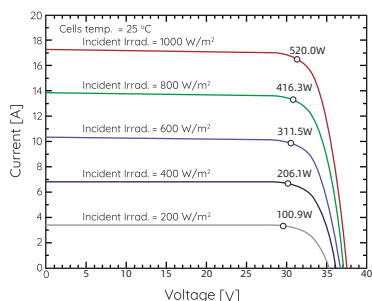
Model	JGDN100-500		JGDN100-505		JGDN100-510		JGDN100-515		JGDN100-520		JGDN100-525		JGDN100-530	
Power Tolerance (0~+5W)	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Pmax (W)	500	386	505	390	510	394	515	398	520	402	525	406	530	410
Vmp (V)	30.64	29.09	30.83	29.30	31.02	29.49	31.21	29.68	31.40	29.88	31.59	30.07	31.77	30.26
Imp (A)	16.32	13.27	16.38	13.31	16.44	13.36	16.50	13.41	16.56	13.45	16.62	13.50	16.68	13.55
Voc (V)	36.42	35.12	36.72	35.38	36.96	35.62	37.19	35.86	37.42	36.08	37.65	36.32	37.87	36.54
Isc (A)	17.16	13.90	17.19	13.95	17.25	14.00	17.31	14.05	17.37	14.10	17.43	14.15	17.49	14.20
Panel Efficiency (%)	21.00		21.20		21.40		21.60		21.80		22.00		22.20	

BSTC

BSTC (Bifacial Standard Test Conditions): Front side irradiation 1000W/m², back side reflection irradiation 135W/m², AM=1.5, ambient temperature 25°C.

Model	JGDN100-500		JGDN100-505		JGDN100-510		JGDN100-515		JGDN100-520		JGDN100-525		JGDN100-530	
Power Tolerance (0~+5W)	BSTC		BSTC		BSTC		BSTC		BSTC		BSTC		BSTC	
Pmax (W)	552		557		563		568		574		579		585	
Vmp (V)	30.64		30.83		31.02		31.21		31.40		31.59		31.77	
Imp (A)	18.00		18.07		18.13		18.20		18.27		18.33		18.40	
Voc (V)	36.42		36.72		36.96		37.19		37.42		37.65		37.87	
Isc (A)	18.93		18.96		19.03		19.09		19.16		19.23		19.29	

Electrical Curves:



Mechanical Specification

Solar Cell Type	100half-cut,N-Type, HJT cells
Module Dimensions (mm)	2172×1096×35
Module Weight (kg)	29.2
Front Cover	Solar glass, 2.0 mm, with anti-reflective surface
Back Cover	Solar glass, 2.0 mm
Frame	Anodized aluminum
Junction Box	3 bypass diodes, IP68 rated, in accordance with IEC 62790
Cables	PV cable 4 mm ² , 0.3 m length, in accordance with EN 50618 (or customized length)
Connectors	MC4-Evo2, in accordance with IEC 62852, IP68 rated only when connected
Packing	31pieces/pallet, 620 pieces/ 40'HQ container

Properties of System Design

Maximum System Voltage (V)	1500
Maximum Series Fuse Rating (A)	35
Max. Test Load +/- (incl. Safety Factor of 1.5) (Pa)	5400/2400
Fire Class according to EN 13501-1	CLASS C (EN13501-1)
Operating Temperature (°C)	-40 to +85

Warranty

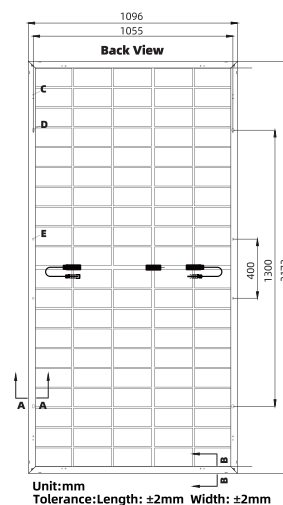
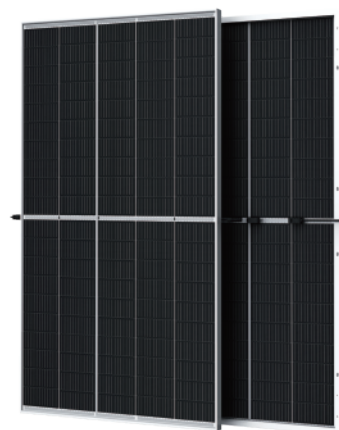
Product Warranty (Y)	15
Power Warranty (Y)	30
Power after 1 Year	≥98.5% of nominal power
Annual Degradation (%/Y)	0.4
Power after 30 years	≥89% of nominal power

Temperature Coefficients

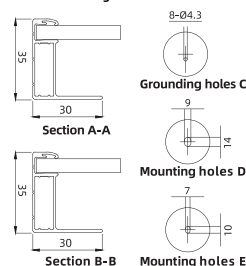
Temperature Coefficient of Isc	+0.026 %/ °C
Temperature Coefficient of Voc	-0.223%/ °C
Temperature Coefficient of Pmax	-0.243%/ °C
Nominal Module Operating Temperature (NMOT)	43±3/ °C



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Unit:mm
Tolerance:Length: ±2mm Width: ±2mm





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JGDN108B

HJT Bifacial Module



Based on 182mm wafer, N-Type HJT half cut cells



Module power up to 440W, Module efficiency up to 22.50%



Use super MBB half-cut cell technology to minimize micro-crack impacts and no-cutting loss on modules



The front generation power is 30% higher than the conventional module and the back power is 25% higher



No BO-LID, excellent anti-LeTID & anti-PID performance. Low power degradation, high energy yield



Better shading tolerance



Heavy snow load up to 5400 Pa, wind load up to 2400 Pa

410W~440W



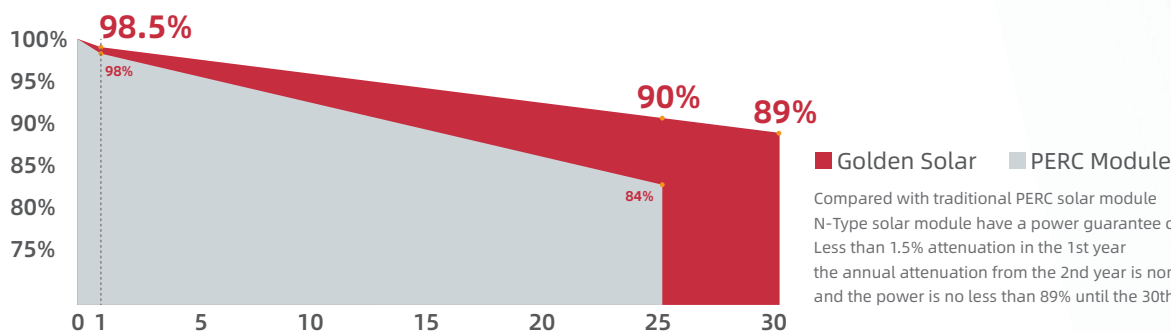
Size < 2 sqm Heterojunction Technology



15-Year Warranty for Materials and Processing



30-Year Warranty for Extra Linear Power Output



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JGDN108B



GOLDEN SOLAR

STC/NMOT

STC (Standard Test Conditions): Irradiance 1000 W/m², Cell temperature :25 °C, AM1.5 .
NMOT (Nominal Module Operating Temperature): Irradiance 800 W/m², AM1.5, temperature 20 °C, wind speed 1 m/s.

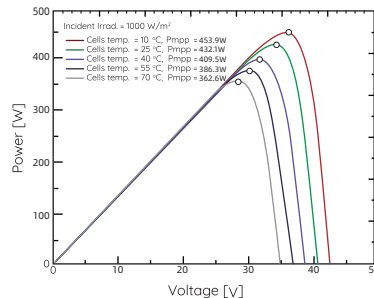
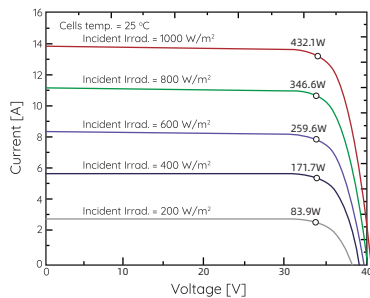
Model	JGDN108-410		JGDN108-415		JGDN108-420		JGDN108-425		JGDN108-430		JGDN108-435		JGDN108-440	
Power Tolerance (0~+5W)	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Pmax (W)	410	317	415	321	420	325	425	329	430	333	435	337	440	341
Vmp (V)	32.69	31.66	32.96	31.91	33.22	32.14	33.49	32.38	33.75	32.61	34.01	32.85	34.26	33.07
Imp (A)	12.54	10.01	12.59	10.06	12.64	10.11	12.69	10.16	12.74	10.21	12.79	10.26	12.84	10.31
Voc (V)	39.44	38.51	39.67	38.84	39.91	39.18	40.14	39.51	40.37	39.84	40.61	40.16	40.84	40.49
Isc (A)	12.86	10.38	12.91	10.42	12.96	10.46	13.01	10.5	13.05	10.54	13.09	10.58	13.14	10.62
Panel Efficiency (%)	21.00		21.30		21.50		21.80		22.00		22.30		22.50	

BSTC

BSTC (Bifacial Standard Test Conditions): Front side irradiation 1000W/m², back side reflection irradiation 135W/m², AM=1.5, ambient temperature 25°C.

Model	JGDN108-410		JGDN108-415		JGDN108-420		JGDN108-425		JGDN108-430		JGDN108-435		JGDN108-440	
Power Tolerance (0~+5W)	BSTC		BSTC		BSTC		BSTC		BSTC		BSTC		BSTC	
Pmax (W)	451		457		462		468		473		479		484	
Vmp (V)	32.69		32.96		33.22		33.49		33.75		34.01		34.26	
Imp (A)	13.80		13.87		13.91		13.97		14.01		14.08		14.13	
Voc (V)	39.44		39.67		39.91		40.14		40.37		40.61		40.84	
Isc (A)	14.14		14.20		14.25		14.31		14.35		14.39		14.45	

Electrical Curves:



Mechanical Specification

Solar Cell Type	108 half-cut, N-Type, HJT cells
Module Dimensions (mm)	1722x1134x30
Module Weight (kg)	26
Front Cover	Solar glass, 2.0 mm, with anti-reflective surface
Back Cover	Solar glass, 2.0 mm
Frame	Anodized aluminum
Junction Box	3 bypass diodes, IP68 rated, in accordance with IEC 62790
Cables	PV cable 4 mm ² , 0.3 m length, in accordance with EN 50618 (or customized length)
Connectors	MC4-Evo2, in accordance with IEC 62852, IP68 rated only when connected
Packing	36pieces/pallet, 936pieces/ 40'HQ container

Properties of System Design

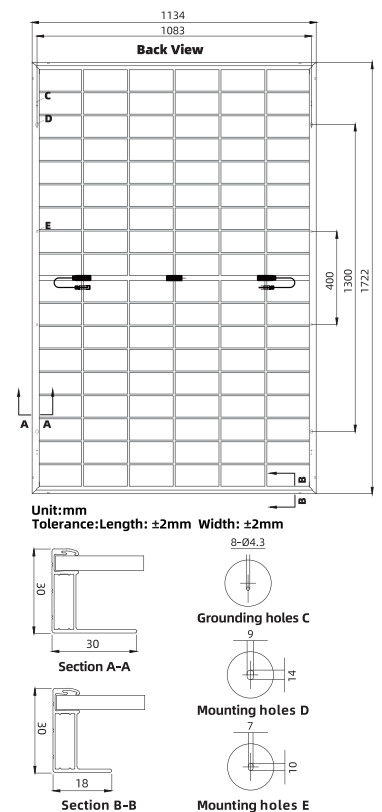
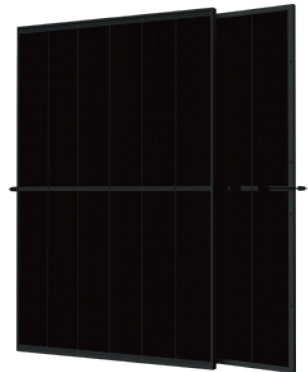
Maximum System Voltage (V)	1500
Maximum Series Fuse Rating (A)	25
Max. Test Load +/- (incl. Safety Factor of 1.5) (Pa)	5400/2400
Fire Class according to EN 13501-1	CLASS C (EN13501-1)
Operating Temperature (°C)	-40 to +85

Warranty

Product Warranty (Y)	15
Power Warranty (Y)	30
Power after 1 Year	≥98.5% of nominal power
Annual Degradation (%/Y)	0.4
Power after 30 years	≥89% of nominal power

Temperature Coefficients

Temperature Coefficient of Isc	+0.026 %/ °C
Temperature Coefficient of Voc	-0.223%/ °C
Temperature Coefficient of Pmax	-0.243%/ °C
Nominal Module Operating Temperature (NMOT)	43±3/ °C



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GOLDEN SOLAR

Make Solar Energy More Efficient!

JGDN110

HJT Bifacial Module



Based on 210mm wafer, N-Type bifacial HJT half cut cells



Module power up to 585W, Module efficiency up to 22.40%



Use super MBB half-cut cell technology to minimize micro-crack impacts and no-cutting loss on modules



The front generation power is 30% higher than the conventional module and the back power is 25% higher



No BO-LID, excellent anti-LeTID & anti-PID performance. Low power degradation, high energy yield



Better shading tolerance



Heavy snow load up to 5400 Pa, wind load up to 2400 Pa

555W~585W



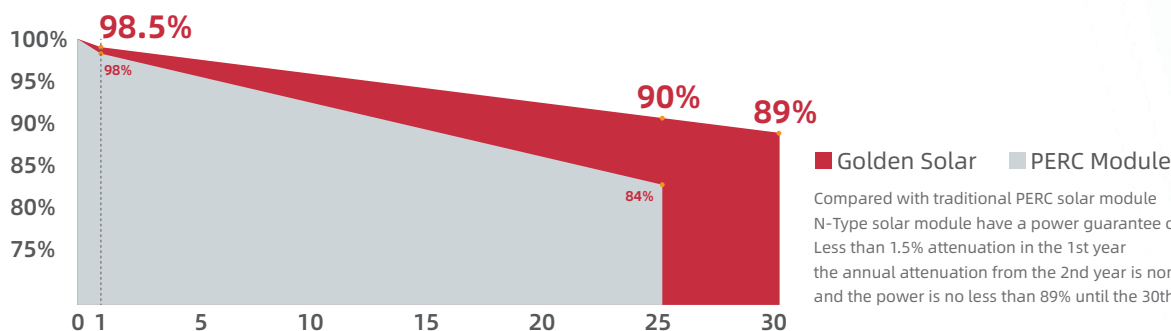
Size > 2 sqm Heterojunction Technology



15-Year Warranty for Materials and Processing



30-Year Warranty for Extra Linear Power Output



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STC/NMOT

STC (Standard Test Conditions): Irradiance 1000 W/m², Cell temperature :25 °C, AM1.5 .
NMOT (Nominal Module Operating Temperature): Irradiance 800 W/m², AM1.5, temperature 20 °C, wind speed 1 m/s.

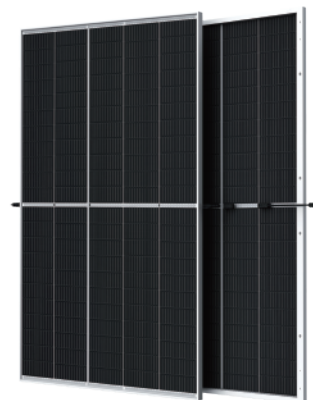
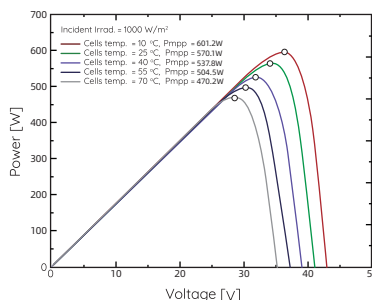
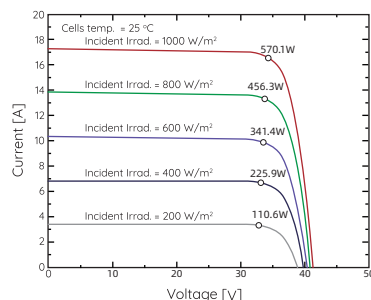
Model	JGDN110-555		JGDN110-560		JGDN110-565		JGDN110-570		JGDN110-575		JGDN110-580		JGDN110-585	
Power Tolerance (0~+5W)	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Pmax (W)	555	429	560	433	565	437	570	441	575	445	580	449	585	453
Vmp (V)	33.98	32.33	34.17	32.54	34.35	32.71	34.53	32.89	34.71	33.09	34.88	33.26	35.05	33.45
Imp (A)	16.33	13.27	16.39	13.31	16.45	13.36	16.51	13.41	16.57	13.45	16.63	13.50	16.69	13.54
Voc (V)	40.49	38.99	40.77	39.28	40.96	39.46	41.16	39.65	41.35	39.83	41.54	40.00	41.75	40.21
Isc (A)	17.16	13.90	17.19	13.95	17.25	14.00	17.31	14.05	17.37	14.10	17.43	14.15	17.49	14.20
Panel Efficiency (%)	21.20		21.40		21.60		21.80		22.00		22.20		22.40	

BSTC

BSTC (Bifacial Standard Test Conditions): Front side irradiation 1000W/m², back side reflection irradiation 135W/m², AM=1.5, ambient temperature 25°C.

Model	JGDN110-555		JGDN110-560		JGDN110-565		JGDN110-570		JGDN110-575		JGDN110-580		JGDN110-585	
Power Tolerance (0~+5W)	BSTC		BSTC		BSTC		BSTC		BSTC		BSTC		BSTC	
Pmax (W)	612		618		623		629		634		640		645	
Vmp (V)	33.98		34.17		34.35		34.53		34.71		34.88		35.05	
Imp (A)	18.01		18.08		18.14		18.21		18.28		18.34		18.41	
Voc (V)	40.49		40.77		40.96		41.16		41.35		41.54		41.75	
Isc (A)	18.93		18.96		19.03		19.09		19.16		19.23		19.29	

Electrical Curves:



Mechanical Specification

Solar Cell Type	110 half-cut,N-Type, HJT cells
Module Dimensions (mm)	2384x1096x35
Module Weight (kg)	32.3
Front Cover	Solar glass, 2.0 mm, with anti-reflective surface
Back Cover	Solar glass, 2.0 mm
Frame	Anodized aluminum (black)
Junction Box	3 bypass diodes, IP68 rated, in accordance with IEC 62790
Cables	PV cable 4 mm ² , 0.3m length, in accordance with EN 50618 (or customized length)
Connectors	MC4-Evo2, in accordance with IEC 62852, IP68 rated only when connected
Packing	31pcs/pallet, 620pcs/40'HQ container

Properties of System Design

Maximum System Voltage (V)	1500
Maximum Series Fuse Rating (A)	35
Max. Test Load +/- (incl. Safety Factor of 1.5) (Pa)	5400/2400
Fire Class according to EN 13501-1	CLASS C (EN13501-1)
Operating Temperature (°C)	-40 to +85

Warranty

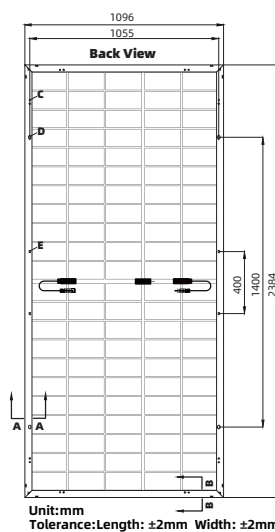
Product Warranty (Y)	15
Power Warranty (Y)	30
Power after 1 Year	≥98.5% of nominal power
Annual Degradation (%/Y)	0.4
Power after 30 years	≥89% of nominal power

Temperature Coefficients

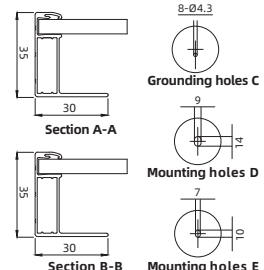
Temperature Coefficient of Isc	+0.026%/ °C
Temperature Coefficient of Voc	-0.223%/ °C
Temperature Coefficient of Pmax	-0.243%/ °C
Nominal Module Operating Temperature (NMOT)	43±3/ °C



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Unit:mm
Tolerance:Length: ±2mm Width: ±2mm





GOLDEN SOLAR

Make Solar Energy More Efficient!

JGDN132

HJT Bifacial Module



Based on 210mm wafer, N-Type bifacial HJT half cut cells



Module power up to 710W, Module efficiency up to 22.85%



Use super MBB half-cut Cell technology to minimize micro-crack impacts and no-cutting loss on modules



The front generation power is 30% higher than the conventional module and the back power is 25% higher



No BO-LID, excellent anti-LeTID & anti-PID performance. Low power degradation, high energy yield



Better shading tolerance



Heavy snow load up to 5400 Pa, wind load up to 2400 Pa

675W~710W



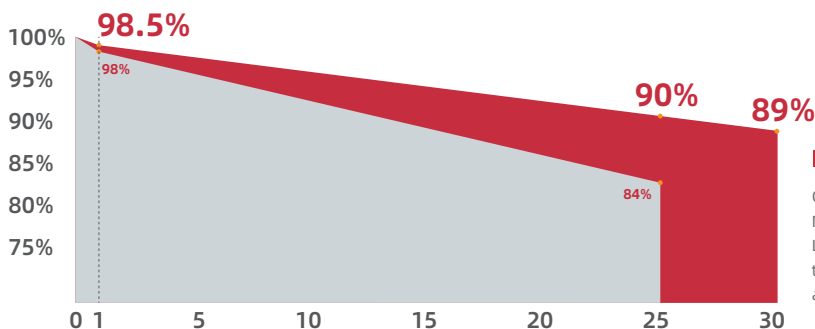
Size > 2 sqm Heterojunction Technology



15-Year Warranty for Materials and Processing



30-Year Warranty for Extra Linear Power Output



■ Golden Solar ■ PERC Module

Compared with traditional PERC solar module N-Type solar module have a power guarantee of up to 30 years. Less than 1.5% attenuation in the 1st year the annual attenuation from the 2nd year is no more than 0.4% and the power is no less than 89% until the 30th year.

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STC/NMOT

STC (Standard Test Conditions): Irradiance 1000 W/m², Cell temperature :25 °C, AM1.5 .
NMOT (Nominal Module Operating Temperature): Irradiance 800 W/m², AM1.5, temperature 20 °C, wind speed 1 m/s.

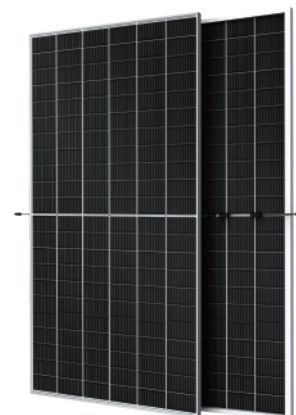
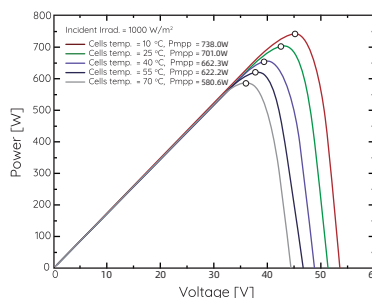
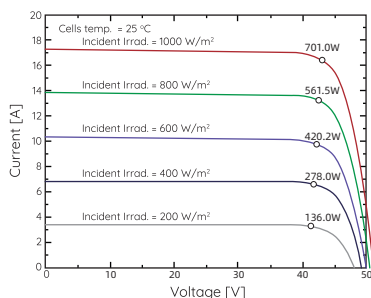
Model	JGDN132-675		JGDN132-680		JGDN132-685		JGDN132-690		JGDN132-695		JGDN132-700		JGDN132-705		JGDN132-710	
Power Tolerance (0~+5W)	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Pmax (W)	675	566	680	569	685	574	690	578	695	583	700	588	705	592	710	597
Vmp (V)	42.25	40.05	42.44	40.24	42.63	40.43	42.82	40.62	43.02	40.82	43.21	41.01	43.40	41.20	43.53	41.33
Imp (A)	16.03	14.13	16.05	14.15	16.09	14.19	16.14	14.24	16.18	14.28	16.23	14.33	16.27	14.37	16.34	14.44
Voc (V)	48.84	46.24	48.91	46.31	48.97	46.37	49.04	46.44	49.10	46.50	49.17	46.57	49.24	46.64	49.30	46.70
Isc (A)	16.91	14.91	16.98	14.98	17.06	15.06	17.14	15.14	17.22	15.22	17.31	15.31	17.39	15.39	17.47	15.47
Panel Efficiency (%)	21.73		21.89		22.05		22.21		22.37		22.53		22.70		22.85	

BSTC

BSTC (Bifacial Standard Test Conditions): Front side irradiation 1000W/m², back side reflection irradiation 135W/m², AM=1.5, ambient temperature 25°C.

Model	JGDN132-675		JGDN132-680		JGDN132-685		JGDN132-690		JGDN132-695		JGDN132-700		JGDN132-705		JGDN132-710	
Power Tolerance (0~+5W)	BSTC		BSTC		BSTC		BSTC		BSTC		BSTC		BSTC		BSTC	
Pmax (W)	745		750		756		761		767		772		778		783	
Vmp (V)	42.25		42.44		42.63		42.82		43.02		43.21		43.40		43.53	
Imp (A)	17.68		17.70		17.75		17.80		17.85		17.90		17.95		18.02	
Voc (V)	48.84		48.91		48.97		49.04		49.10		49.17		49.24		49.30	
Isc (A)	18.65		18.73		18.82		18.91		18.99		19.09		19.18		19.27	

Electrical Curves:



Mechanical Specification

Solar Cell Type	132 half-cut, N-Type, HJT cells
Module Dimensions (mm)	2384×1303×35
Module Weight (kg)	38.5
Front Cover	Solar glass, 2.0 mm, with anti-reflective surface
Back Cover	Solar glass, 2.0 mm
Frame	Anodized aluminum
Junction Box	3 bypass diodes, IP68 rated, in accordance with IEC 62790
Cables	PV cable 4 mm ² , 0.3 m length, in accordance with EN 50618 (or customized length)
Connectors	MC4-Evo2, in accordance with IEC 62852, IP68 rated only when connected
Packing	31 pieces/pallet, 558 pieces/ 40'HQ container

Properties of System Design

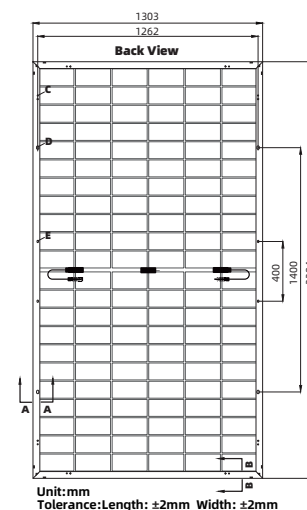
Maximum System Voltage (V)	1500
Maximum Series Fuse Rating (A)	35
Max. Test Load +/- (incl. Safety Factor of 1.5) (Pa)	5400/2400
Fire Class according to EN 13501-1	CLASS C (EN13501-1)
Operating Temperature (°C)	-40 to +85

Warranty

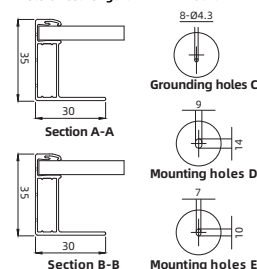
Product Warranty (Y)	15
Power Warranty (Y)	30
Power after 1 Year	≥98.5% of nominal power
Annual Degradation (%/Y)	0.4
Power after 30 years	≥89% of nominal power

Temperature Coefficients

Temperature Coefficient of Isc	+0.026 %/ °C
Temperature Coefficient of Voc	-0.223%/ °C
Temperature Coefficient of Pmax	-0.243%/ °C
Nominal Module Operating Temperature (NMOT)	43±3/ °C



Unit:mm
Tolerance:Length: ±2mm Width: ±2mm



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GOLDEN SOLAR

Make Solar Energy More Efficient!

JGDN120

HJT Bifacial Module



Based on 210mm wafer, N-Type bifacial HJT half cut cells



Module power up to 650W, Module efficiency up to 23.00%



Use super MBB half-cut cell technology to minimize micro-crack impacts and no-cutting loss on modules



The front generation power is 30% higher than the conventional module and the back power is 25% higher



No BO-LID, excellent anti-LeTID & anti-PID performance. Low power degradation, high energy yield



Better shading tolerance



Heavy snow load up to 5400 Pa, wind load up to 2400 Pa

620W~650W



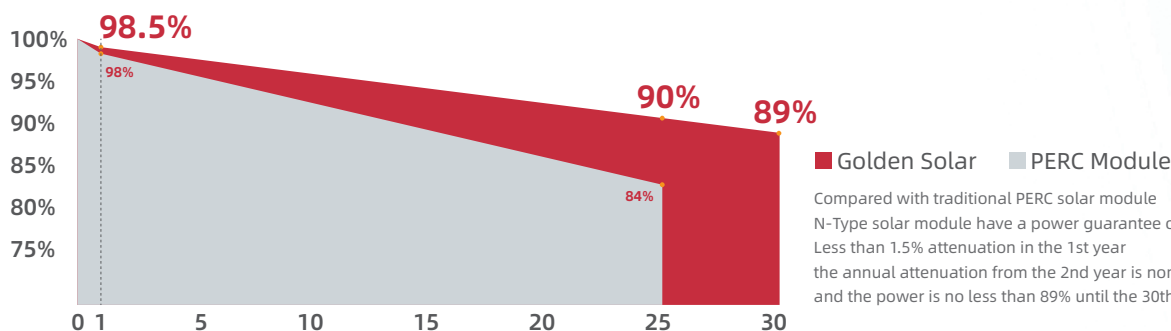
Size > 2 sqm Heterojunction Technology



15-Year Warranty for Materials and Processing



30-Year Warranty for Extra Linear Power Output



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JGDN120



GOLDEN SOLAR

STC/NMOT

STC (Standard Test Conditions): Irradiance 1000 W/m², Cell temperature :25 °C, AM1.5 .
NMOT (Nominal Module Operating Temperature): Irradiance 800 W/m², AM1.5, temperature 20 °C, wind speed 1 m/s.

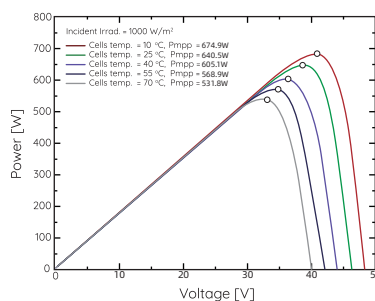
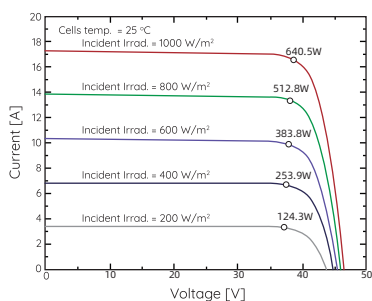
Model	JGDN120-620		JGDN120-625		JGDN120-630		JGDN120-635		JGDN120-640		JGDN120-645		JGDN120-650	
Power Tolerance (0~+5W)	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Pmax (W)	620	515	625	520	630	525	635	530	640	534	645	538	650	543
Vmp (V)	39.14	36.94	39.20	37.00	39.26	37.06	39.31	37.11	39.37	37.17	49.48	37.28	39.60	37.4
Imp (A)	15.85	13.95	15.96	14.06	16.08	14.18	16.19	14.29	16.27	14.37	16.34	14.44	16.42	14.52
Voc (V)	44.52	41.92	44.58	41.98	44.64	42.04	44.70	42.10	44.76	42.16	44.82	42.22	44.88	42.28
Isc (A)	16.95	14.95	17.05	15.05	17.16	15.16	17.27	15.27	17.33	15.33	17.42	15.42	17.53	15.53
Panel Efficiency (%)	21.90		22.10		22.30		22.40		22.60		22.80		23.00	

BSTC

BSTC (Bifacial Standard Test Conditions): Front side irradiation 1000W/m², back side reflection irradiation 135W/m², AM=1.5, ambient temperature 25°C.

Model	JGDN120-620		JGDN120-625		JGDN120-630		JGDN120-635		JGDN120-640		JGDN120-645		JGDN120-650	
Power Tolerance (0~+5W)	BSTC		BSTC		BSTC		BSTC		BSTC		BSTC		BSTC	
Pmax (W)	684		689		695		700		706		711		717	
Vmp (V)	39.14		39.20		39.26		39.31		39.37		49.48		39.60	
Imp (A)	17.48		17.60		17.74		17.86		17.95		18.02		18.11	
Voc (V)	44.52		44.58		44.64		44.70		44.76		44.82		44.88	
Isc (A)	18.70		18.81		18.93		19.05		19.11		19.21		19.34	

Electrical Curves:



Mechanical Specification

Solar Cell Type	120 half-cut, N-Type, HJT cells
Module Dimensions (mm)	2172×1303×35
Module Weight (kg)	35.5
Front Cover	Solar glass, 2.0 mm, with anti-reflective surface
Back Cover	Solar glass, 2.0 mm
Frame	Anodized aluminum
Junction Box	3 bypass diodes, IP68 rated, in accordance with IEC 62790
Cables	PV cable 4 mm ² , 0.3 m length, in accordance with EN 50618 (or customized length)
Connectors	MC4-Evo2, in accordance with IEC 62852, IP68 rated only when connected
Packing	31 pieces/pallet, 558 pieces/ 40'HQ container

Properties of System Design

Maximum System Voltage (V)	1500
Maximum Series Fuse Rating (A)	35
Max. Test Load +/- (incl. Safety Factor of 1.5) (Pa)	5400/2400
Fire Class according to EN 13501-1	CLASS C (EN13501-1)
Operating Temperature (°C)	-40 to +85

Warranty

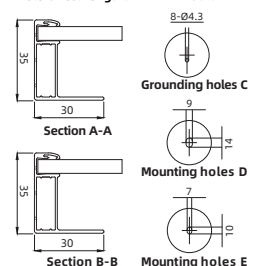
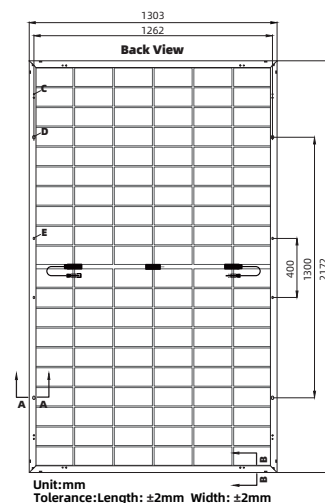
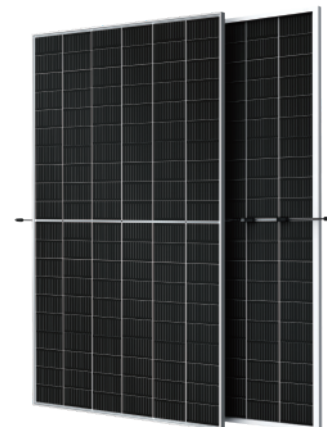
Product Warranty (Y)	15
Power Warranty (Y)	30
Power after 1 Year	≥98.5% of nominal power
Annual Degradation (%/Y)	0.4
Power after 30 years	≥89% of nominal power

Temperature Coefficients

Temperature Coefficient of Isc	+0.026 %/ °C
Temperature Coefficient of Voc	-0.223%/ °C
Temperature Coefficient of Pmax	-0.243%/ °C
Nominal Module Operating Temperature (NMOT)	43±3/ °C



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GOLDEN SOLAR

Make Solar Energy More Efficient!

JGDN144

HJT Bifacial Module



Based on 182mm wafer, N-Type HJT half cut cells



Module power up to 585W, Module efficiency up to 22.60%



Use super MBB half-cut cell technology to minimize micro-crack impacts and no-cutting loss on modules



The front generation power is 30% higher than the conventional module and the back power is 25% higher



No BO-LID, excellent anti-LeTID & anti-PID performance. Low power degradation, high energy yield



Better shading tolerance



Heavy snow load up to 5400 Pa, wind load up to 2400 Pa

555W~585W



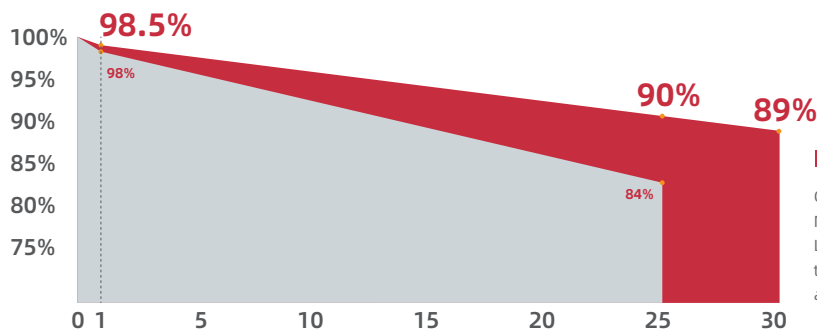
Size > 2 sqm Heterojunction Technology



15-Year Warranty for Materials and Processing



30-Year Warranty for Extra Linear Power Output



■ Golden Solar ■ PERC Module

Compared with traditional PERC solar module N-Type solar module have a power guarantee of up to 30 years. Less than 1.5% attenuation in the 1st year the annual attenuation from the 2nd year is no more than 0.4% and the power is no less than 89% until the 30th year.

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JGDN144



GOLDEN SOLAR

STC/NMOT

STC (Standard Test Conditions): Irradiance 1000 W/m², Cell temperature :25 °C, AM1.5 .
NMOT (Nominal Module Operating Temperature): Irradiance 800 W/m², AM1.5, temperature 20 °C, wind speed 1 m/s.

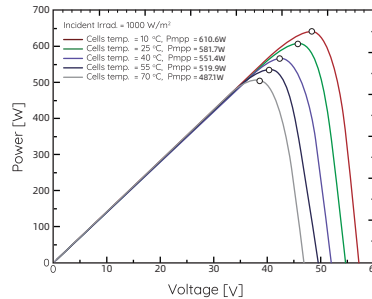
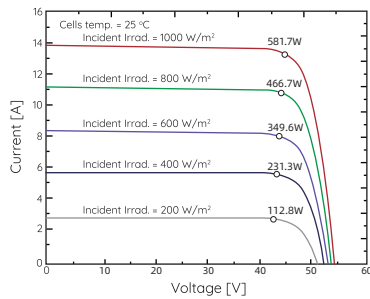
Model	JGDN144-555		JGDN144-560		JGDN144-565		JGDN144-570		JGDN144-575		JGDN144-580		JGDN144-585	
Power Tolerance (0~+5W)	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Pmax (W)	555	429	560	433	565	437	570	441	575	445	580	449	585	453
Vmp (V)	44.26	42.85	44.48	43.04	44.7	43.22	44.92	43.41	45.14	43.58	45.35	43.77	45.57	43.93
Imp (A)	12.54	10.01	12.59	10.06	12.64	10.11	12.69	10.16	12.74	10.21	12.79	10.26	12.84	10.31
Voc (V)	53.4	52.11	53.63	52.4	53.86	52.68	54.09	52.96	54.32	53.24	54.55	53.51	54.78	53.78
Isc (A)	12.86	10.38	12.91	10.42	12.96	10.46	13.01	10.5	13.05	10.54	13.09	10.58	13.14	10.62
Panel Efficiency (%)	21.50		21.70		21.90		22.10		22.30		22.50		22.60	

BSTC

BSTC (Bifacial Standard Test Conditions): Front side irradiation 1000W/m², back side reflection irradiation 135W/m², AM=1.5, ambient temperature 25°C.

Model	JGDN144-555		JGDN144-560		JGDN144-565		JGDN144-570		JGDN144-575		JGDN144-580		JGDN144-585	
Power Tolerance (0~+5W)	BSTC		BSTC		BSTC		BSTC		BSTC		BSTC		BSTC	
Pmax (W)	611		616		621		627		633		638		644	
Vmp (V)	44.26		44.48		44.7		44.92		45.14		45.35		45.57	
Imp (A)	13.81		13.85		13.89		13.96		14.02		14.07		14.13	
Voc (V)	53.40		53.63		53.86		54.09		54.32		54.55		54.78	
Isc (A)	14.14		14.20		14.25		14.31		14.35		14.39		14.45	

Electrical Curves:



Mechanical Specification

Solar Cell Type	144 half-cut, N-Type, HJT cells
Module Dimensions (mm)	2278×1134×30
Module Weight (kg)	31.8
Front Cover	Solar glass, 2.0 mm, with anti-reflective surface
Back Cover	Solar glass, 2.0 mm
Frame	Anodized aluminum
Junction Box	3 bypass diodes, IP68 rated, in accordance with IEC 62790
Cables	PV cable 4 mm ² , 0.3 m length, in accordance with EN 50618 (or customized length)
Connectors	MC4-Evo2, in accordance with IEC 62852, IP68 rated only when connected
Packing	36pieces/calset, 720pieces/ 40'HQ container

Properties of System Design

Maximum System Voltage (V)	1500
Maximum Series Fuse Rating (A)	25
Max. Test Load +/- (incl. Safety Factor of 1.5) (Pa)	5400/2400
Fire Class according to EN 13501-1	CLASS C (EN13501-1)
Operating Temperature (°C)	-40 to +85

Warranty

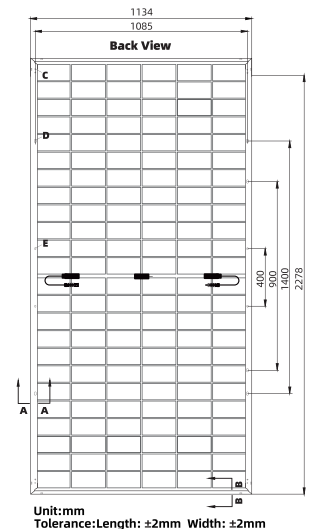
Product Warranty (Y)	15
Power Warranty (Y)	30
Power after 1 Year	≥98.5% of nominal power
Annual Degradation (%/Y)	0.4
Power after 30 years	≥89% of nominal power

Temperature Coefficients

Temperature Coefficient of Isc	+0.026 %/ °C
Temperature Coefficient of Voc	-0.223%/ °C
Temperature Coefficient of Pmax	-0.243%/ °C
Nominal Module Operating Temperature (NMOT)	43±3/ °C



*The specifications and key features contained in this datasheet may deviate slightly from our actual products due to the ongoing innovation and product enhancement. Golden Solar reserves the right to make necessary adjustment to the information described herein at anytime without further notice.



Unit:mm
Tolerance:Length: ±2mm Width: ±2mm

