



GOLDEN SOLAR

Make Solar Energy More Efficient!

JGDN108B

HJT Bifacial Module



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



Module power up to 445W; module efficiency up to 22.70%



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



Power output from the front is 4.1% more than that of TOPCon module, and power output from the back is 14.76% more than that of TOPCon module



No Boron-Oxygen-Induced Degradation (BO-LID), excellent anti-LeTID & anti-PID performance. Low power degradation, and high energy yield



With the temperature coefficient $-0.243\%/^{\circ}\text{C}$

415W~445W



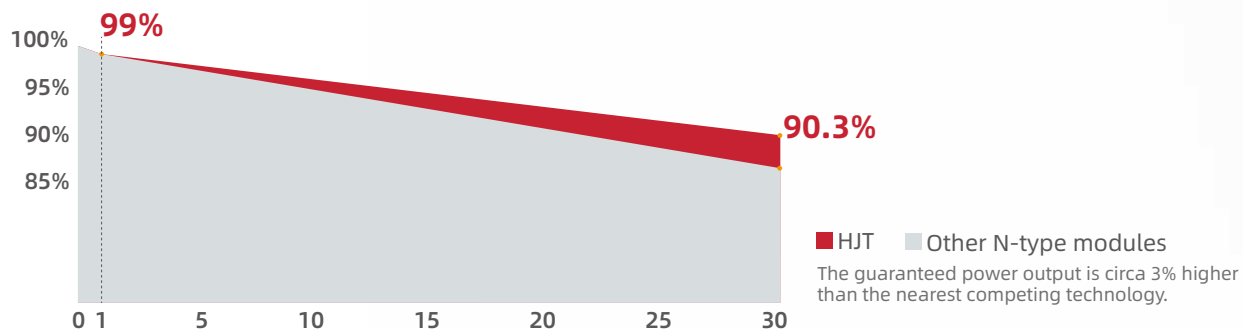
Size 2 m^2



15-Year Warranty for Materials and Processing



30-Year Warranty for Extra Linear Power Output



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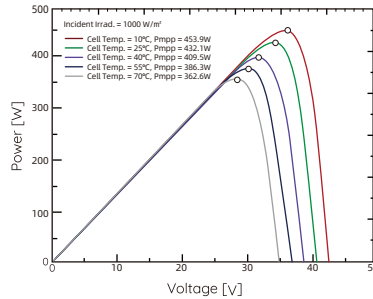
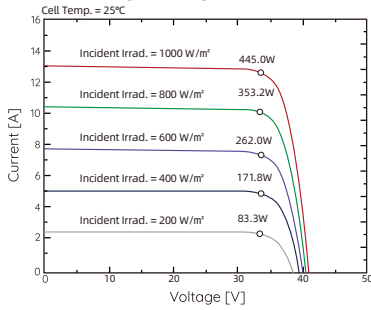
STC/NMOT STC (Standard Test Conditions): Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass 1.5.
 NMOT (Nominal Module Operating Temperature): Irradiance 800 W/m², Air Mass 1.5, Temperature 20°C, Wind Speed 1 m/s.

Model	JGDN108-415		JGDN108-420		JGDN108-425		JGDN108-430		JGDN108-435		JGDN108-440		JGDN108-445	
Power Tolerance (0~+5W)	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Pmax (W)	415	321	420	326	425	331	430	336	435	341	440	346	445	351
Vmp (V)	34.01	31.91	34.28	32.14	34.55	32.38	34.81	32.61	35.08	32.85	35.34	33.07	35.60	33.29
Imp (A)	12.20	10.06	12.25	10.11	12.30	10.16	12.35	10.21	12.40	10.26	12.45	10.31	12.50	10.36
Voc (V)	40.16	38.84	40.32	39.18	40.48	39.51	40.64	39.84	40.82	40.16	40.98	40.49	41.17	40.82
Isc (A)	12.76	10.42	12.81	10.46	12.86	10.50	12.91	10.54	12.96	10.58	13.01	10.62	13.06	10.66
Panel Efficiency (%)	21.30		21.50		21.80		22.00		22.30		22.50		22.70	

BSTC BSTC (Bifacial Standard Test Conditions): Front Side Irradiation 1000 W/m², Back Side Reflection Irradiation 135 W/m², Air Mass 1.5, Ambient Temperature 25°C.

Model	JGDN108-415		JGDN108-420		JGDN108-425		JGDN108-430		JGDN108-435		JGDN108-440		JGDN108-445	
Power Tolerance (0~+5W)	BSTC		BSTC		BSTC		BSTC		BSTC		BSTC		BSTC	
Pmax (W)	457		462		467		472		477		482		487	
Vmp (V)	32.96		33.22		33.49		33.75		34.01		34.26		34.51	
Imp (A)	13.87		13.91		13.97		14.01		14.08		14.13		14.18	
Voc (V)	39.67		39.91		40.14		40.37		40.61		40.84		41.07	
Isc (A)	14.20		14.25		14.31		14.35		14.39		14.45		14.51	

Electrical Curves (445W):



Mechanical Specification

Solar Cell Type	108 half-cut, N-type, HJT cells
Module Dimensions	1722x1134x30 mm
Module Weight	26 kg
Front Side	Anti-reflective coated solar glass, 2.0 mm thick
Back Side	Solar glass, 2.0 mm thick
Frame	Anodized aluminum
Junction Box	3 bypass diodes, IP68 rated to IEC 62790
Cable	4 mm ² PV cable, 0.3 m long (lengths can be customized), complies with EN 50618
Connector	MC4 compatible

Properties of System Design

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

Temperature Coefficients

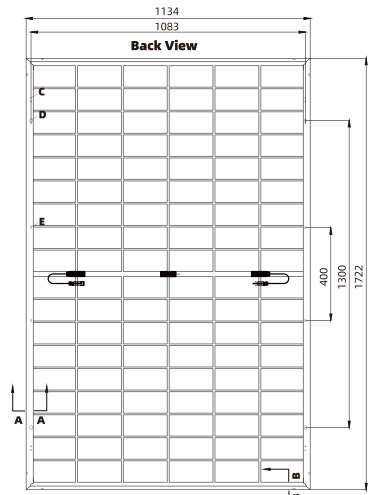
Temperature Coefficient of Isc	+0.026%/ °C
Temperature Coefficient of Voc	-0.223%/ °C
Temperature Coefficient of Pmax	-0.243%/ °C
Nominal Module Operating Temperature (NMOT)	43±3/ °C

Comprehensive Certificates

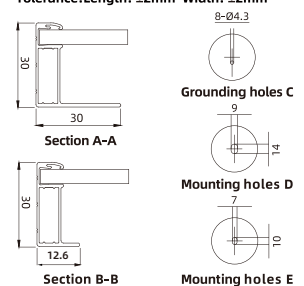
- IEC 61215, IEC 61730
- ISO 9001: 2015 Quality management systems
- ISO 14001: 2015 Environmental management systems
- ISO 45001: 2018 Occupational health and safety management systems

Packing

36 pcs/pallet, 936 pcs/40'HQ container



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



*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 adjustments to the information described herein at any time without further notice.