



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



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



Bifaciality up to 90%

425W~445W



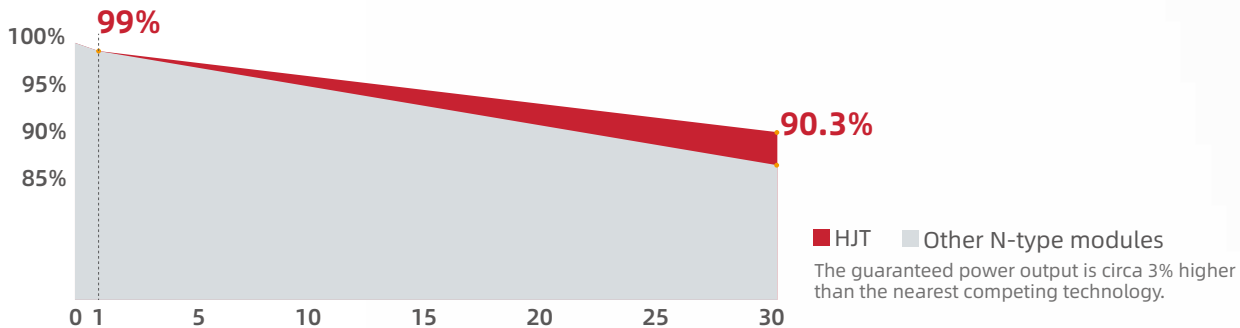
Size < 2 m²



15-Year Warranty for Materials and Processing



30-Year Warranty for Extra Linear Power Output



JGDN108B



GOLDEN SOLAR

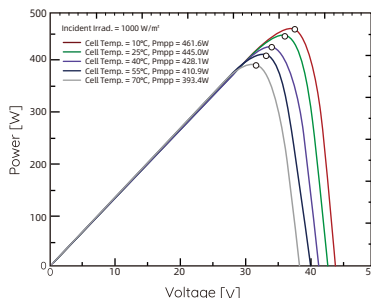
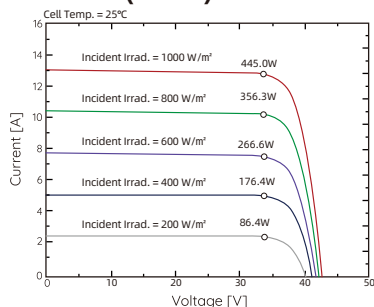
STC STC (Standard Test Conditions): Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass 1.5.

Model	JGDN108-425	JGDN108-430	JGDN108-435	JGDN108-440	JGDN108-445
Power Tolerance (0~+5W)	STC	STC	STC	STC	STC
Pmax (W)	425	430	435	440	445
Vmp (V)	34.55	34.81	35.08	35.34	35.60
Imp (A)	12.30	12.35	12.40	12.45	12.50
Voc (V)	41.48	41.64	41.82	42.15	42.51
Isc (A)	12.86	12.91	12.96	13.01	13.06
Panel Efficiency (%)	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	JGDN108-425	JGDN108-430	JGDN108-435	JGDN108-440	JGDN108-445
Power Tolerance (0~+5W)	BSTC	BSTC	BSTC	BSTC	BSTC
Pmax (W)	470	475	480	485	490
Vmp (V)	34.55	34.81	35.08	35.34	35.60
Imp (A)	13.60	13.65	13.68	13.72	13.76
Voc (V)	41.48	41.64	41.82	42.15	42.51
Isc (A)	14.31	14.35	14.39	14.45	14.51

Electrical Curves (445W):



Mechanical Specification

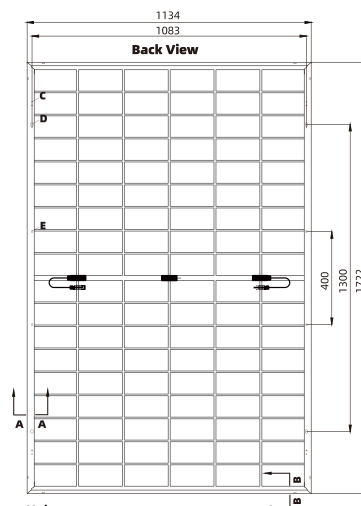
Solar Cell Type	108 half-cut, N-type, HJT cells
Module Dimensions	1722x1134x30 mm
Module Weight	24 kg
Front Side	Anti-reflective coated solar glass, 2.0 mm thick
Back Side	Solar glass, 2.0 mm thick
Frame	Anodized aluminum
Junction Box	3 bypass diodes, IP68 rated to IEC 62790
Cable	4 mm ² PV cable, 0.3 m long (lengths can be customized), complies with EN 50618
Connector	MC4 EVO2 compatible

Properties of System Design

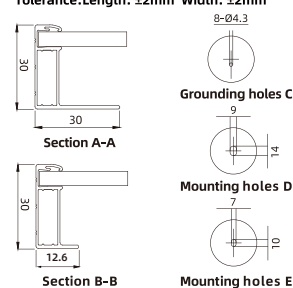
Maximum System Voltage	1500V
Maximum Series Fuse Rating	25A
Max. Test Load +/- (incl. Safety Factor of 1.5)	5400/2400Pa
Fire Class	IEC Class C, UL Class C, UNI Class 1
Protection Class	Class II
Operating Temperature	-40 to + 85°C

Temperature Coefficients

Temperature Coefficient of Isc	+0.033 %/°C
Temperature Coefficient of Voc	-0.243 %/°C
Temperature Coefficient of Pmax	-0.254 %/°C
Nominal Module Operating Temperature (NMOT)	43±3/ °C



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



Comprehensive Certificates

- IEC 61215, IEC 61730
- UNI 9177, UL 790, MCS, PVEL
- ISO 9001, ISO 14001, ISO 45001

Packing

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

*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.