



GOLDEN SOLAR

Make Solar Energy More Efficient!

JGDN144-0BB

HJT Bifacial Module



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



Module power up to 600W; module efficiency up to 23.23%



0BB thin-slice half-cut technology, using a stencil printing process and silver-coated copper



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 95%

570W~600W



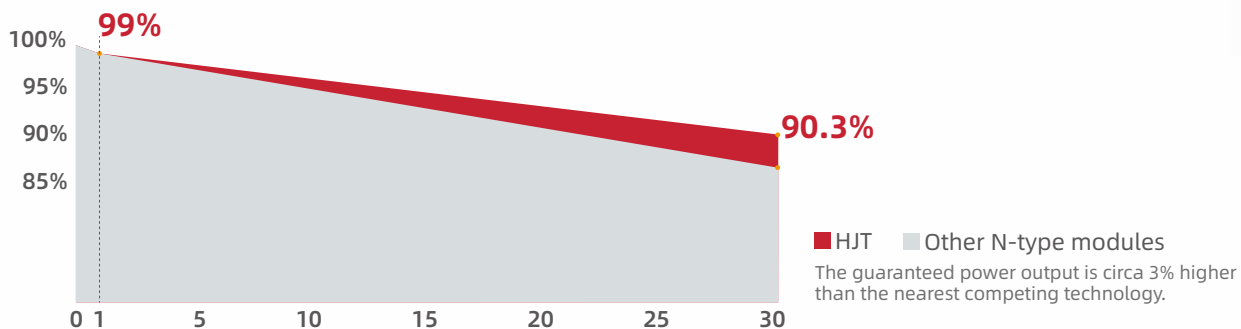
Size > 2 m²



15-Year Warranty for Materials and Processing



30-Year Warranty for Extra Linear Power Output



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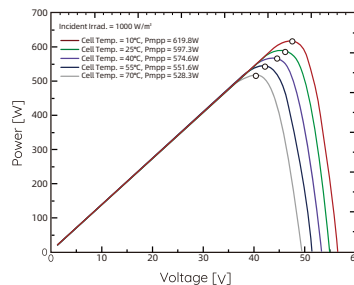
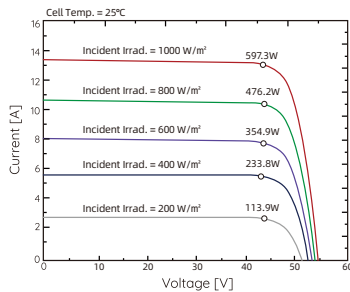
STC STC (Standard Test Conditions): Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass 1.5.

Model	JGDN144-570	JGDN144-575	JGDN144-580	JGDN144-585	JGDN144-590	JGDN144-595	JGDN144-600
Power Tolerance (0~+5W)	STC	STC	STC	STC	STC	STC	STC
Pmax (W)	570	575	580	585	590	595	600
Vmp (V)	44.82	45.02	45.22	45.42	45.62	45.82	46.02
Imp (A)	12.72	12.77	12.83	12.88	12.93	12.99	13.04
Voc (V)	54.31	54.41	54.51	54.61	54.71	54.81	54.91
Isc (A)	13.15	13.20	13.25	13.30	13.35	13.40	13.45
Panel Efficiency (%)	22.10	22.30	22.50	22.60	22.80	23.03	23.23

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

Model	JGDN144-570	JGDN144-575	JGDN144-580	JGDN144-585	JGDN144-590	JGDN144-595	JGDN144-600
Power Tolerance (0~+5W)	BSTC	BSTC	BSTC	BSTC	BSTC	BSTC	BSTC
Pmax (W)	638	644	650	655	661	666	672
Vmp (V)	44.82	45.02	45.22	45.42	45.62	45.82	46.02
Imp (A)	14.24	14.30	14.37	14.43	14.48	14.54	14.60
Voc (V)	54.31	54.41	54.51	54.61	54.71	54.81	54.91
Isc (A)	14.73	14.78	14.84	14.90	14.95	15.01	15.06

Electrical Curves (600W):



Mechanical Specification

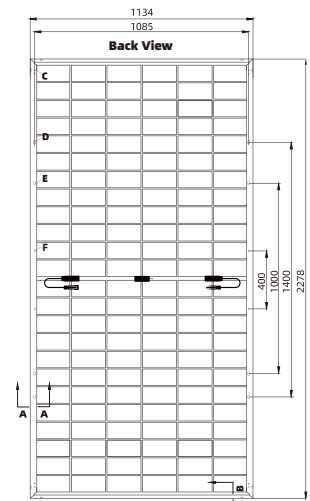
Solar Cell Type	144 half-cut, N-type, HJT cells
Module Dimensions	2278x1134x30 mm
Module Weight	31.8 kg
Front Side	Anti-reflective coated solar glass, 2.0 mm thick
Back Side	Solar glass, 2.0 mm thick
Frame	Anodized aluminum
Junction Box	3 bypass diodes, IP68 rated to IEC 62790
Cable	4 mm ² PV cable, 0.3 m long (lengths can be customized), complies with EN 50618
Connector	MC4 EVO2 compatible

Properties of System Design

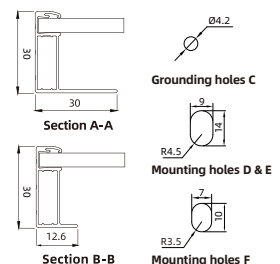
Maximum System Voltage	1500V
Maximum Series Fuse Rating	25A
Snow Load	5400Pa
Wind Load	2400Pa
Fire Class	IEC Class C, UL Class C, UNI Class 1
Protection Class	Class II
Operating Temperature	-40 to + 85°C

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

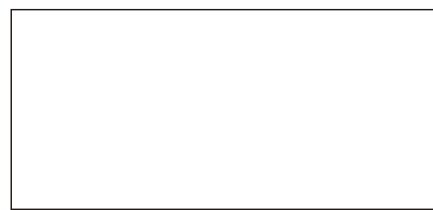


Comprehensive Certificates

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

Packing

36 pcs/pallet, 720 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.