

## Make Solar Energy More Efficient!

## JGDN120

### **HJT Bifacial Module**



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



Module power up to 670W; module efficiency up to 23.67%



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



Bifaciality up to 90%

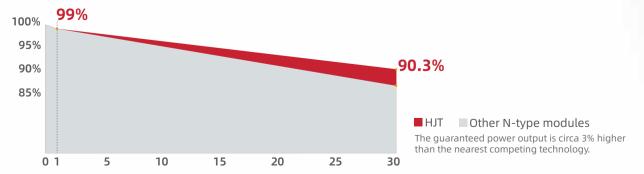
# 640W~670W



#### Size > 2 m<sup>2</sup>

15-Year Warranty for Materials and Processing













## JGDN120



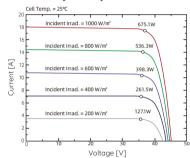
STC (Standard Test Conditions): Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass 1.5.

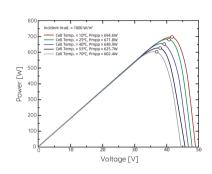
Model	JGDN120-640	JGDN120-645	JGDN120-650	JGDN120-655	JGDN120-660	JGDN120-665	JGDN120-670
Power Tolerance (0~+5W)	STC						
Pmax (W)	640	645	650	655	660	665	670
Vmp (V)	38.60	38.74	38.88	39.01	39.15	39.28	39.41
Imp (A)	16.58	16.65	16.72	16.79	16.58	16.93	17.00
Voc (V)	45.54	45.70	45.86	46.02	46.18	46.34	46.50
Isc (A)	17.33	17.42	17.53	17.64	17.75	17.86	17.97
Panel Efficiency (%	22.60	22.79	22.97	23.14	23.32	23.50	23.67

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	JGDN120-640	JGDN120-645	JGDN120-650	JGDN120-655	JGDN120-660	JGDN120-665	JGDN120-670
Power Tolerance (0~+5W)	BSTC						
Pmax (W)	705	710	715	720	725	730	735
Vmp (V)	38.60	38.74	38.88	39.01	39.15	39.28	39.41
Imp (A)	18.26	18.33	18.39	18.46	18.52	18.58	18.65
Voc (V)	45.54	45.70	45.86	46.02	46.18	46.34	46.50
Isc (A)	19.11	19.21	19.34	19.47	19.60	19.73	19.86

#### **Electrical Curves (670W):**





#### **Mechanical Specification**

Solar Cell Type	120 half-cut, N-type, HJT cells	
Module Dimensions	2172×1303×35 mm	
Module Weight	35.5 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 <sup>2</sup> 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	35A
Max. Test Load +/- (incl. Safety Factor of 1.5)	5400/2400Pa
Fire Class according to IEC 61730	CLASS C (UL 790)
Operating Temperature	-40 to + 85°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**

31 pcs/pallet, 558 pcs/40'HQ container

#### **Temperature Coefficients**

Temperature Coefficient of Isc	+0.033 %/°C
Temperature Coefficient of Voc	-0.243 %/℃
Temperature Coefficient of Pmax	-0.243 %/℃
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 adjustments to the information described herein at any time without further notice.



