JW Plus Series

n-Type Bifacial Dual-Glass Module

JW-HD132N-R2 625-650W

Maximum Power Output **650W** | Maximum Module Efficiency **24.1%** | Power Output Tolerance **0~+3%**

***n*-TOPCon**

Better Customer Value

- Dual-side power generation with up to 30% increase in backside power generation in varied scenarios
- Lower 1st-year degradation (1%) and annual degradation (0.4%)
- Higher module efficiency, reduced BOS & LCOE, and increased ROI

Enhanced Energy Yield

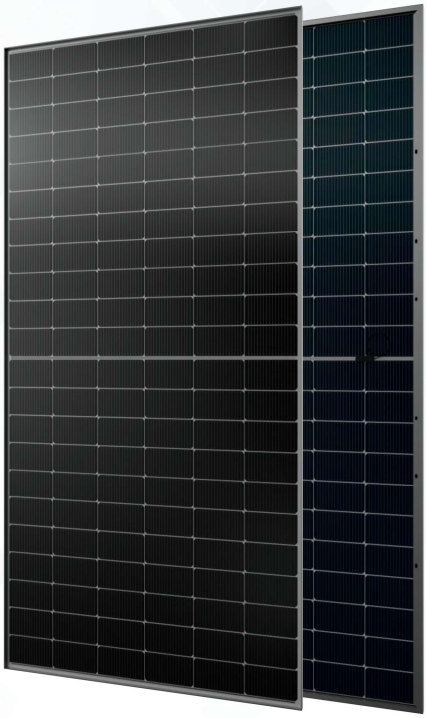
- Excellent IAM performance and better low-light performance
- Better temperature coefficient (-0.28%/°C) and lower operating temperature resulting in increased energy yield

Robust Reliability

- J-TOPCon New technology with lower LID & LeTID degradation
- Innovative non-destructive cutting tech to minimize microcrack risks
- Exceptional environmental resilience against salt mist, ammonia, PID, sandstorms, and high-temperature/humidity conditions

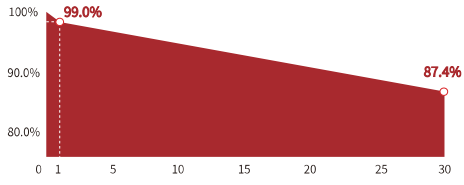
High Safety

- J-TOPCon New technology enhanced hot-spot resistance
- Rigorously tested for mechanical load: 5,400Pa front load & 2,400Pa rear load



IEC 61215(2021)/IEC 61730(2023)/IEC 61701/IEC 62716
ISO 9001:2015: Quality Management System
ISO 14001:2015: Environment Management System
ISO 45001:2018: Occupational health and safety
IEC 62941:2019: Quality system for PV module manufacturing

Linear Performance Warranty



1.00% 1st-year Degradation

0.40% Annual Degradation

12 Years Product Material & Workmanship **30** Years Linear Performance Warranty

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JW-HD132N | n-type Bifacial Dual-Glass Module

Electrical Properties | STC*

Testing Condition	Front Side	Front Side	Front Side	Front Side	Front Side	Front Side
Peak Power (Pmax) (W)	625	630	635	640	645	650
MPP Voltage (Vmp) (V)	41.45	41.63	41.24	41.40	41.56	41.72
MPP Current (Imp) (A)	15.08	15.13	15.40	15.46	15.52	15.58
Open Circuit Voltage (Voc) (V)	49.19	49.30	49.50	49.70	49.90	50.10
Short Circuit Current (Isc) (A)	16.05	16.15	16.31	16.37	16.43	16.49
Module Efficiency (%)	23.1	23.3	23.5	23.7	23.9	24.1

*STC: Irradiance 1000 W/m², Cell Temperature 25°C, AM1.5
The data above is for reference only and the actual data is in accordance with the pratical testing
Power Measurement Tolerance ±3%

Electrical Properties | NMOT*

Testing Condition	Front Side	Front Side	Front Side	Front Side	Front Side	Front Side
Peak Power (Pmax) (W)	468	472	476	479	483	487
MPP Voltage (Vmp) (V)	39.69	39.86	39.49	39.64	39.79	39.95
MPP Current (Imp) (A)	11.80	11.84	12.04	12.09	12.14	12.19
Open Circuit Voltage (Voc) (V)	47.10	47.20	47.40	47.59	47.78	47.97
Short Circuit Current (Isc) (A)	12.96	13.04	13.17	13.22	13.27	13.32

*NMOT: Irradiance 800 W/m², Ambient Temperature 20°C, Wind Speed 1 m/s

Electrical Properties Under Different Rear Gain | JW-HD132N-R2-650

Power Gain (%)	Peak Power (Pmax) (W)	MPP Voltage (Vmp) (V)	MPP Current (Imp) (A)	Open Circuit Voltage (Voc) (V)	Short Circuit Current (Isc) (A)
10	709.5	41.56	17.07	49.90	18.07
15	741.8	41.56	17.85	49.90	18.89
20	774.0	41.66	18.58	50.00	19.68
25	806.3	41.66	19.35	50.00	20.50
30	838.5	41.66	20.13	50.00	21.32

Operating Properties

Operating Temperature	-40℃~+85℃
Maximum System Voltage	1500V (IEC)
Maximum Series Fuse Rating	35A
Bifaciality*	80%
Static Load	Front side 5400Pa, Rear side 2400Pa

*Bifaciality=Pmaxrear (STC) /Pmaxfront (STC) , Bifaciality tolerance:±5%

Temperature Coefficient

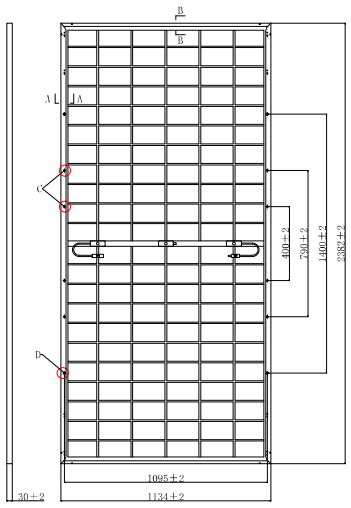
Temperature Coefficient of Pmax	-0.280%/℃
Temperature Coefficient of Voc	-0.250%/℃
Temperature Coefficient of Isc	+0.045%/℃
Nominal Operating Cell Temperature	45±2℃

Specification

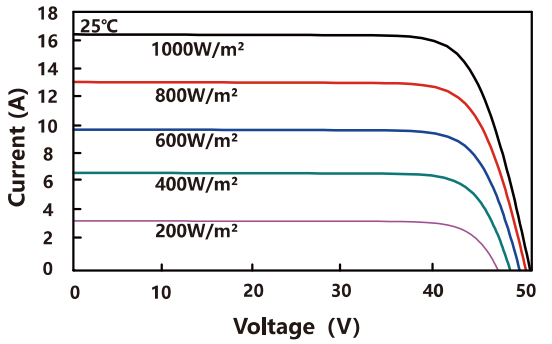
Number of Cells	132pcs
Module Dimension	2382mm*1134mm*30mm
Weight	32.6kg
Front / Rear Glass*	2.0mm*2.0mm Heat-strengthened glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 (3 diodes)
Length of Cable	4.0mm², +300mm/-180mm (Cable length can be customized)
Packaging Configuration	36pcs/Pallet, 720pcs/40HQ Container

*The specification and key features described in this datasheet may deviate slightly and are not guaranteed. Due to ongoing innovation, R&D enhancement,Jolywood (Taizhou) Solar Technology Co., Ltd. reserves the right to make any adjustment to the information described herein at any time without notice. Please always obtain the most recent version of the datasheet which shall be duly incorporated into the binding contract made by the parties governing all transactions related to the purchase and sale of the products described herein.

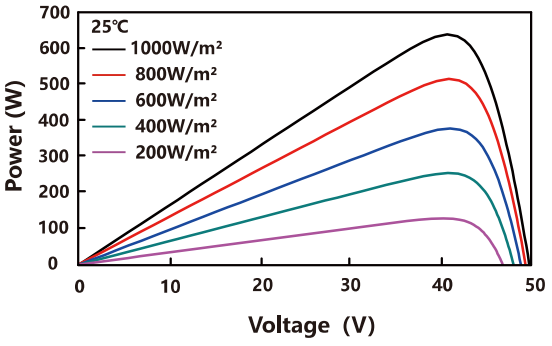
Engineering Drawing (unit: mm)



Characteristic Curves | JW-HD132N-R2-650



I-V Characteristics At Different Irradiations



P-V Characteristics At Different Irradiations

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