

JW Plus Series

n-Type Bifacial Dual-Glass Module

JW-HD132N-R2

JW-HD132N-R2-620 JW-HD132N-R2-625 JW-HD132N-R2-630
JW-HD132N-R2-635 JW-HD132N-R2-640 JW-HD132N-R2-645

Maximum
Power Output

645W

Maximum Module
Efficiency

23.9%

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



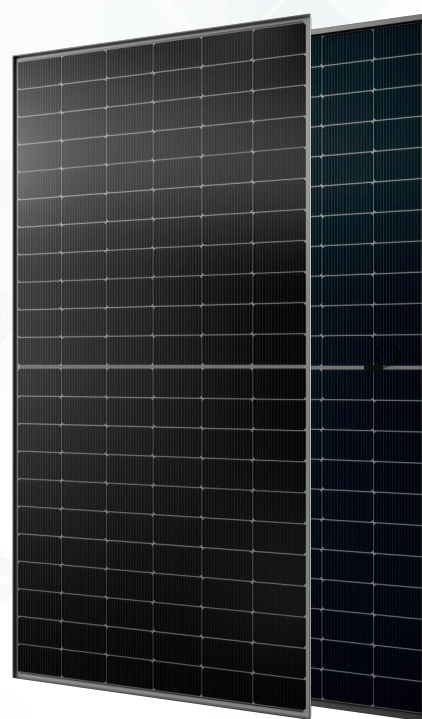
Robust Reliability

- J-TOPCon New technology with lower LID degradation
- Innovative non-destructive cutting tech to minimize microcrack risks
- Withstand harsh environmental conditions



High Safety

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

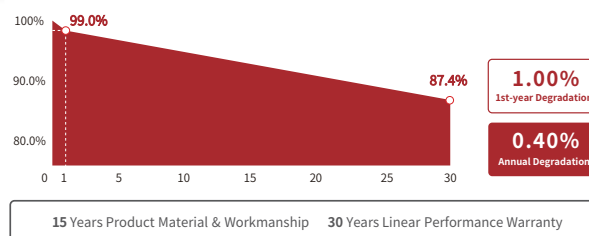


Jolywood Delivers Reliable Performance Over Time

- Leader of N-type bifacial manufacturer
- Full-automatic facility and industry-leading technology
- Best-in-class durability and reliability
- BNEF Tier One

*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.

Linear Performance Warranty



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Add: No.6 Kaiyang Rd., Jiangyan Economic Development Zone,
Taizhou, Jiangsu Province, China, 225500

TEL: +86 523 80612799

Email: info@jolywood.cn



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www.jolywood.com



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JW-HD132N-R2 | n-type Bifacial Dual-Glass Module

Electrical Properties | STC*

Module Type	JW-HD132N-R2-620	JW-HD132N-R2-625	JW-HD132N-R2-630	JW-HD132N-R2-635	JW-HD132N-R2-640	JW-HD132N-R2-645
Peak Power (P _{max}) (W)	620	625	630	635	640	645
MPP Voltage (V _{mp}) (V)	41.27	41.45	41.63	41.81	41.99	42.17
MPP Current (I _{mp}) (A)	15.02	15.08	15.13	15.19	15.24	15.30
Open Circuit Voltage (V _{oc}) (V)	48.06	48.26	48.46	48.66	48.86	49.06
Short Circuit Current (I _{sc}) (A)	15.87	15.92	15.97	16.02	16.07	16.12
Module Efficiency (%)	23.0	23.1	23.3	23.5	23.7	23.9

*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 practical testing

Power Measurement Tolerance ±3%, Voc Tolerance: ±4%, Isc Tolerance: ±5% Testing Condition: Front Side

BNPI & Bifaciality Coefficient & BSI

Module Type		JW-HD132N-R2-620	JW-HD132N-R2-625	JW-HD132N-R2-630	JW-HD132N-R2-635	JW-HD132N-R2-640	JW-HD132N-R2-645
BNPI*	P _{max} (W)	682.0	687.5	693.0	698.5	704.0	709.5
	V _{oc} (V)	48.20	48.40	48.60	48.80	49.00	49.20
	I _{sc} (A)	17.46	17.52	17.57	17.63	17.68	17.74
Bifaciality coefficient	ΦP _{max} (±10%)	80	80	80	80	80	80
	ΦV _{oc} (±3%)	99	99	99	99	99	99
	ΦI _{sc} (±10%)	79	79	79	79	79	79
BSI*	I _{sc} (A)	19.40	19.46	19.52	19.58	19.65	19.71

*BNPI: Power Measurement Tolerance ±3%, Voc Tolerance: ±4%, Isc Tolerance: ±5%

*BSI: Isc Tolerance: ±5%

Electrical Properties Under Different Rear Gain | JW-HD132N-R2-630

Power Gain (%)	Peak Power (P _{max}) (W)	MPP Voltage (V _{mp}) (V)	MPP Current (I _{mp}) (A)	Open Circuit Voltage (V _{oc}) (V)	Short Circuit Current (I _{sc}) (A)
10	693.0	41.63	16.65	48.46	17.57
15	724.5	41.63	17.40	48.46	18.37
20	756.0	41.73	18.12	48.56	19.13
25	787.5	41.73	18.87	48.56	19.93
30	819.0	41.73	19.63	48.56	20.72

Operating Properties

Operating Temperature	-40°C ~ +85°C*
Maximum System Voltage	1500V (IEC)
Maximum Series Fuse Rating	35A
Maximum Test Load	Front side 5400Pa, Rear side 2400Pa

*T98(Max): 70°C

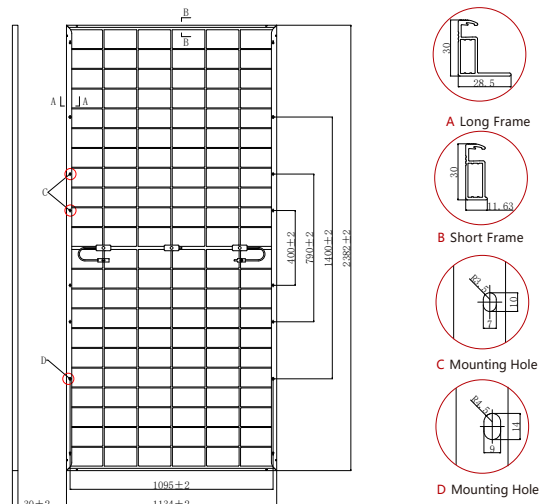
Temperature Coefficient

Temperature Coefficient of P _{max}	-0.280%/°C
Temperature Coefficient of V _{oc}	-0.250%/°C
Temperature Coefficient of I _{sc}	+0.045%/°C
Nominal Operating Cell Temperature	45 ± 2°C

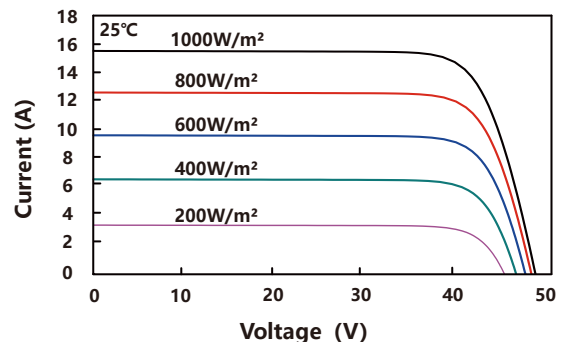
Specification

Number of Cells	132pcs
Module Dimension	2382mm*1134mm*30mm
Weight	32.7kg
Front / Rear Glass*	2.0mm*2.0mm Heat-strengthened glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 (3 diodes)
Length of Cable	4.0mm ² , +300mm/-180mm (Cable length can be customized)
Packaging Configuration	36pcs/Pallet, 720pcs/40HQ Container
Country of Origin	China
Fire Rating	C

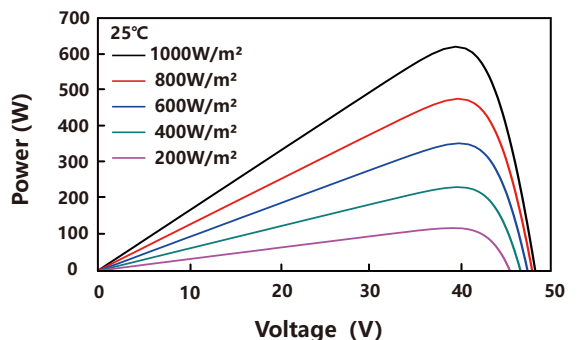
Engineering Drawing (unit: mm)



Characteristic Curves | JW-HD132N-R2-630



I-V Characteristics At Different Irradiations



P-V Characteristics At Different Irradiations

Connector Model

Staubli: PV-KST4-EVO 2/xy UR, PV-KBT4-EVO 2/xy UR
PV-KST4-EVO 2A/xy UR, PV-KBT4-EVO 2A/xy UR

Jolywood: JWC2xyzy Renhe: RHC2xyzy
Zhonghuan: PV-ZH202B Xtong: PV-XT101.2



Add: No.6 Kaiyang Rd., Jiangyan Economic Development Zone,
Taizhou, Jiangsu Province, China, 225500

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