

JW Pro Series

n-Type Bifacial Dual-Glass Module

JW-HD144N-R0 585-610W

Maximum Power Output **610W** Maximum Module Efficiency **23.6%** 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

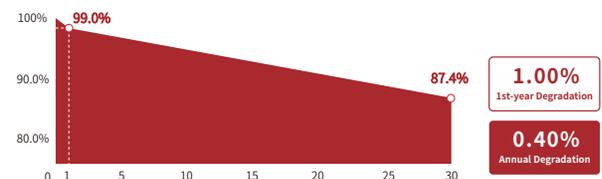


Munich RE   



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



12 Years Product Material & Workmanship 30 Years Linear Performance Warranty

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JW-HD144N | n-type Bifacial Dual-Glass Module

Electrical Properties | STC*

Testing Condition	Front Side					
Peak Power (Pmax) (W)	585	590	595	600	605	610
MPP Voltage (Vmp) (V)	44.61	44.79	44.97	45.15	45.33	45.51
MPP Current (Imp) (A)	13.11	13.17	13.23	13.29	13.35	13.40
Open Circuit Voltage (Voc) (V)	51.97	52.17	52.37	52.57	52.77	52.97
Short Circuit Current (Isc) (A)	13.88	13.94	14.00	14.06	14.12	14.18
Module Efficiency (%)	22.6	22.8	23.0	23.2	23.4	23.6

*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%

Electrical Properties | NMOT*

Testing Condition	Front Side					
Peak Power (Pmax) (W)	438	442	446	449	453	457
MPP Voltage (Vmp) (V)	42.71	42.89	43.06	43.23	43.40	43.58
MPP Current (Imp) (A)	10.26	10.30	10.35	10.40	10.44	10.48
Open Circuit Voltage (Voc) (V)	49.76	49.95	50.14	50.34	50.53	50.72
Short Circuit Current (Isc) (A)	11.21	11.26	11.30	11.35	11.40	11.45

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

Electrical Properties Under Different Rear Gain | JW-HD144N-R0-600

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	660.0	45.15	14.62	52.57	15.46
15	690.0	45.15	15.28	52.57	16.17
20	720.0	45.25	15.91	52.67	16.84
25	750.0	45.25	16.57	52.67	17.54
30	780.0	45.25	17.24	52.67	18.24

Operating Properties

Operating Temperature	-40°C~+85°C
Maximum System Voltage	1500V (IEC)
Maximum Series Fuse Rating	30A
Bifaciality*	80%
Static Load	Front side 5400Pa, Rear side 2400Pa

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

Temperature Coefficient

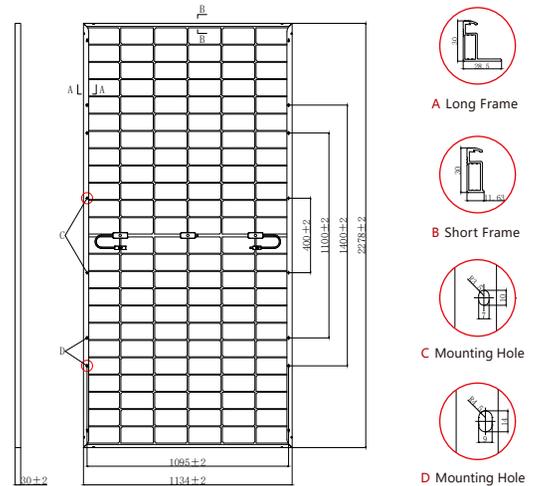
Temperature Coefficient of Pmax	-0.280%/°C
Temperature Coefficient of Voc	-0.250%/°C
Temperature Coefficient of Isc	+0.045%/°C
Nominal Operating Cell Temperature	45±2°C

Specification

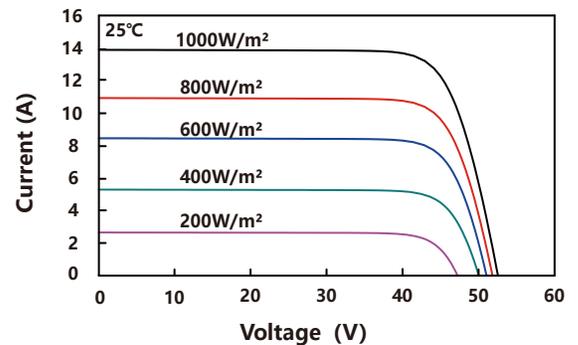
Number of Cells	144pcs
Module Dimension	2278mm*1134mm*30mm
Weight	31.5kg
Front / Rear Glass	2.0mm/2.0mm Heat-strengthened glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 (3 diodes)
Length of Cable	4.0mm ² , +300mm/-180mm (Cable length can be customized)
Packaging Configuration	36pcs/Pallet, 720pcs/40HQ Container

*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.

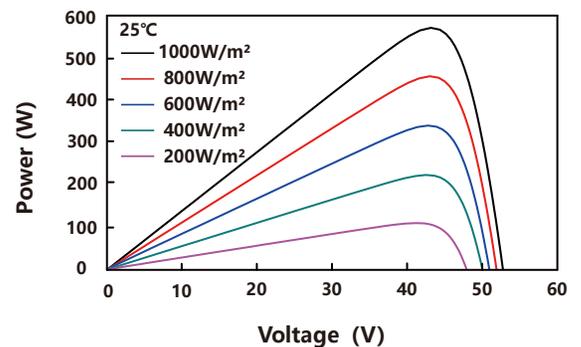
Engineering Drawing (unit: mm)



Characteristic Curves | JW-HD144N-R0-600



I-V Characteristics At Different Irradiations



P-V Characteristics At Different Irradiations



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