

NIWA *Ultra*

JBC Dual-Glass Module

JW-HD96J-R2

JW-HD96J-R2-460 JW-HD96J-R2-465
JW-HD96J-R2-470 JW-HD96J-R2-475
JW-HD96J-R2-480 JW-HD96J-R2-485

- Minimalist, ultra-black design with aesthetic appeal
- High efficiency with low degradation, maximizing power generation
- Shadow optimization technology
- Reduced hot spot risks, enhanced operation safety

25 Product Warranty

30 Performance Warranty

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IEC61215(2021)
IEC61730(2023)

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485W Maximum Power Output	24.3% Maximum Module Efficiency	0~+3% Power Output Tolerance	<1% 1st-year Degradation	<0.35% Annual Degradation
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Electrical Properties STC*

Module Type	JW-HD96J-R2-460	JW-HD96J-R2-465	JW-HD96J-R2-470	JW-HD96J-R2-475	JW-HD96J-R2-480	JW-HD96J-R2-485
Peak Power (Pmax) (W)	460	465	470	475	480	485
MPP Voltage (Vmp) (V)	30.42	30.52	30.62	30.72	30.82	30.92
MPP Current (Imp) (A)	15.12	15.23	15.35	15.46	15.57	15.68
Open Circuit Voltage (Voc) (V)	35.70	35.80	35.90	36.00	36.10	36.20
Short Circuit Current (Isc) (A)	16.19	16.29	16.38	16.48	16.57	16.67
Module Efficiency (%)	23.0	23.3	23.5	23.8	24.0	24.3

*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-HD96J-R2-460	JW-HD96J-R2-465	JW-HD96J-R2-470	JW-HD96J-R2-475	JW-HD96J-R2-480	JW-HD96J-R2-485	
BNPI*	Pmax (W)	506.0	511.5	517.0	522.5	528.0	533.5
	Voc (V)	35.81	35.91	36.01	36.11	36.21	36.31
	Isc (A)	17.81	17.91	18.02	18.13	18.23	18.34
Bifaciality coefficient	ΦPmax (±10%)	70	70	70	70	70	70
	ΦVoc (±3%)	99	99	99	99	99	99
	ΦIsc (±10%)	68	68	68	68	68	68
BSI*	Isc (A)	19.79	19.91	20.02	20.14	20.26	20.37

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

Mechanical Properties

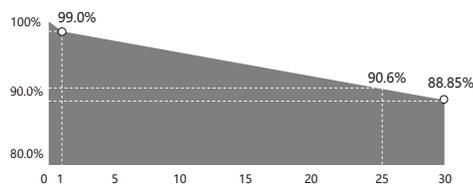
Number of Cells	96pcs
Module Dimension	1762mm*1134mm*30mm
Weight	24.6kg
Front / Rear Glass	2.0mm/2.0mm Heat-strengthened glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 (3 diodes)
Length of Cable	4.0mm ² , +1200mm/-1200mm (Cable length can be customized)
Country of Origin	China
Fire Rating	C
Packaging Configuration	37pcs/Pallet, 962pcs/40HQ Container

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

Linear Performance Warranty

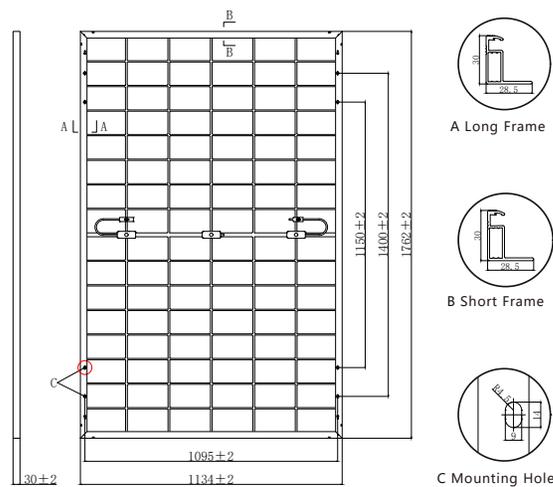


1.00%
1st-year Degradation

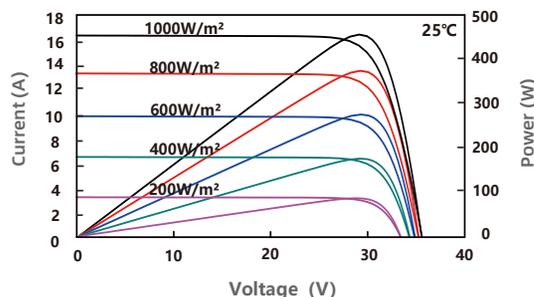
0.35%
Annual Degradation

25 Years Product Warranty **30 Years Performance Warranty**

Engineering Drawing (unit: mm)



Characteristic Curves JW-HD96J-R2-475



Temperature Coefficient

Temperature Coefficient of Pmax	-0.260%/°C
Temperature Coefficient of Voc	-0.220%/°C
Temperature Coefficient of Isc	+0.05%/°C
Nominal Operating Cell Temperature	45±2°C

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: JWC2xyzu Renhe: RHC2xyzu
Zhonghuan: PV-ZH202B Xtong: PV-XT101.2

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