

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)

www.jolywood.com



485W

Maximum Power Output

24.3%

Maximum Module Efficiency

0~+3%

Power Output Tolerance

<1%

1st-year Degradation

<0.35%

Annual Degradation

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 (P _{max}) (W)	460	465	470	475	480	485
MPP Voltage (V _{mp}) (V)	30.42	30.52	30.62	30.72	30.82	30.92
MPP Current (I _{mp}) (A)	15.12	15.23	15.35	15.46	15.57	15.68
Open Circuit Voltage (V _{oc}) (V)	35.70	35.80	35.90	36.00	36.10	36.20
Short Circuit Current (I _{sc}) (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*	P _{max} (W)	506.0	511.5	517.0	522.5	528.0
	V _{oc} (V)	35.81	35.91	36.01	36.11	36.21
	I _{sc} (A)	17.81	17.91	18.02	18.13	18.23
Bifaciality coefficient	ΦP _{max} (±10%)	70	70	70	70	70
	ΦV _{oc} (±3%)	99	99	99	99	99
	ΦI _{sc} (±10%)	68	68	68	68	68
BSI*	I _{sc} (A)	19.79	19.91	20.02	20.14	20.26

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

*BSI: Isc Tolerance: ±5%

Mechanical Properties

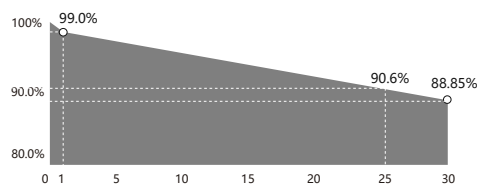
Number of Cells	96pcs
Module Dimension	1762mm*1134mm*30mm
Weight	21.2kg
Front / Rear Glass	1.6mm/1.6mm Heat-strengthened glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 (3 diodes)
Length of Cable	4.0mm ² , +1200mm/-1200mm (Cable length can be customized)
Country of Origin	China
Fire Rating	C
Packaging 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



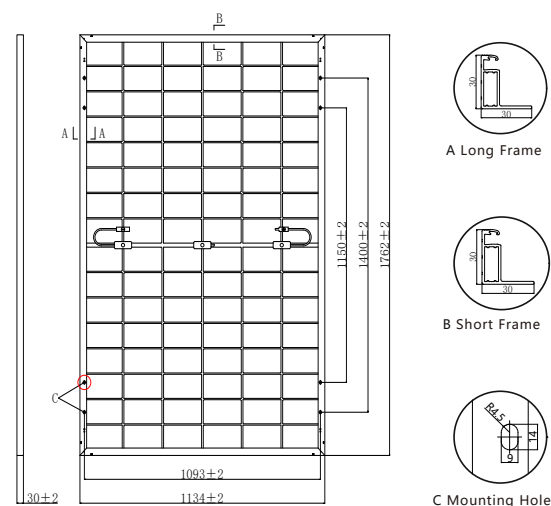
1.00%
1st-year Degradation

0.35%
Annual Degradation

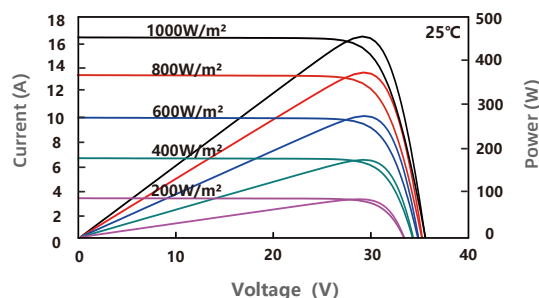
25 Years Product Warranty

30 Years Performance Warranty

Engineering Drawing (unit: mm)



Characteristic Curves JW-HD96J-R2-475



Temperature Coefficient

Temperature Coefficient of P _{max}	-0.260%/°C
Temperature Coefficient of V _{oc}	-0.220%/°C
Temperature Coefficient of I _{sc}	+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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