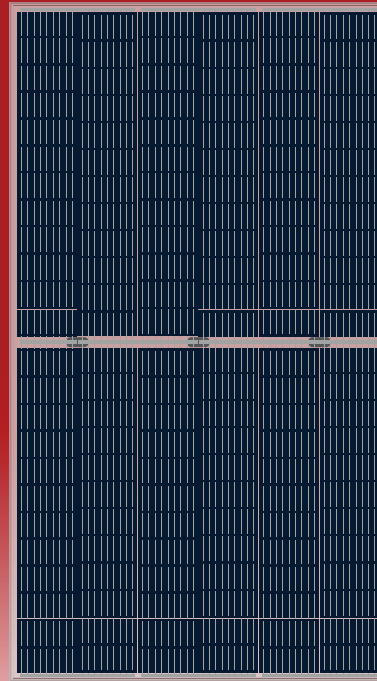
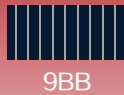


JW-HD144P

PERC Bifacial High Efficiency Mono Silicon Half-Cell Double Glass Module

JW-HD144P-410 JW-HD144P-415

Cell Type



415W

Maximum Power Output

20.67%

Maximum Module Efficiency

0~+5W

Power Output Guarantee

Regarding 415W as an example



Additional Power Generation Gain

Module power increases 5-25% according to different reflection conditions



Superior Low Irradiance Performance

Excellent low light performance on cloudy days mornings and evenings



Higher Reliability

0.5% annual power degradation and 30 year linear power warranty



Reduce Internal Mismatch Loss

Half current reduction due to cell half cutting technology



Lower LCOE

High power and 1500V system voltage, saving BOS cost



Wider Applicability

BIPV, vertical installation, snowfield, high-humid area, windy and dusty area

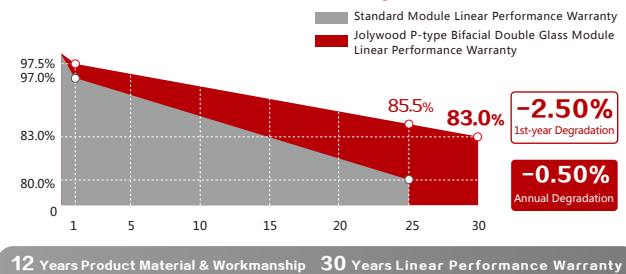
Jolywood Delivers Reliable Performance Over Time

- Leader of n-type bifacial technology
- Fully automatic facility and world-class technology
- Long term reliability tests
- 100% EL inspection ensuring defect-free modules

Additional Insurance Backed by Munich Re



Linear Performance Warranty



JW-HD144P Series

PERC Bifacial High Efficiency Mono Silicon Half-Cell Double Glass Module

Electrical Properties | STC*

Module Type	JW-HD144P-410	JW-HD144P-415
Testing Condition	Front Side	Front Side
Peak Power (Pmax) (W)	410	415
MPP Voltage (Vmp) (V)	41.1	41.3
MPP Current (Imp) (A)	9.98	10.05
Open Circuit Voltage (Voc) (V)	49.2	49.4
Short Circuit Current (Isc) (A)	10.45	10.52
Module Efficiency (%)	20.42	20.67

*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
*Tolerance : Pmax±3% ; Voc±4% ; Isc±5%

Electrical Properties | NOCT*

Testing Condition	Front Side	Front Side
Peak Power (Pmax) (W)	304	308
MPP Voltage (Vmp) (V)	37.8	38.0
MPP Current (Imp) (A)	8.06	8.12
Open Circuit Voltage (Voc) (V)	46.4	46.6
Short Circuit Current (Isc) (A)	8.44	8.50

*NOCT: Irradiance at 800 W/m², Ambient Temperature 20°C, Wind Speed 1 m/s
*Tolerance : Pmax±3% ; Voc±4% ; Isc±5%

Operating Properties

Operating Temperature (°C)	-40°C~+85°C
Maximum System Voltage (V)	1500V (IEC)
Maximum Series Fuse Rating(A)	20
Power Tolerance	0~+5W
Bifaciality*	65%

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

Temperature Coefficient

Temperature Coefficient of Pmax	-0.360%/°C
Temperature Coefficient of Voc	-0.280%/°C
Temperature Coefficient of Isc	+0.048%/°C
Nominal Operating Cell Temperature (NOCT)	45±2°C
Fire Safety	Class C

Mechanical Properties

Cell Type	158.75mm*79.375mm
Number of Cells	144pcs(12*12)
Dimension	2016mm*996mm*30mm
Weight	30kg
Front /Rear Glass*	2.5mm/2.5mm
Frame	Anodized Aluminium
Junction Box	IP67 (3 diodes)
Length of Cable*	4.0mm ² , 300mm
Connector	QC4.10-cd PV-KST4-EVO2/xy_UR;PV-KBT4-EVO2/xy_UR

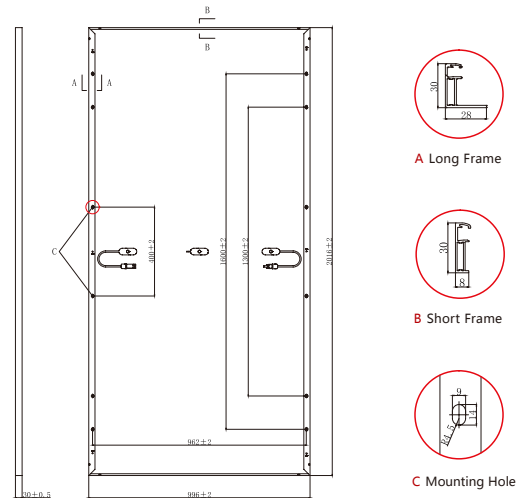
*Heat strengthened glass
*Cable length can be customized

With Different Power Generation Gain (regarding 405W as an example)

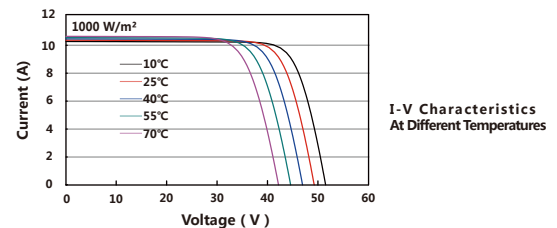
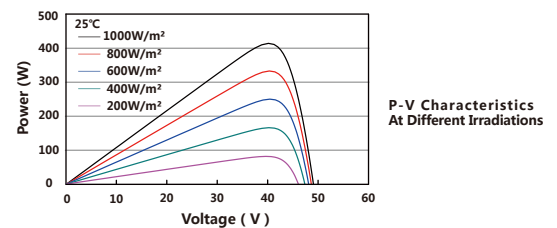
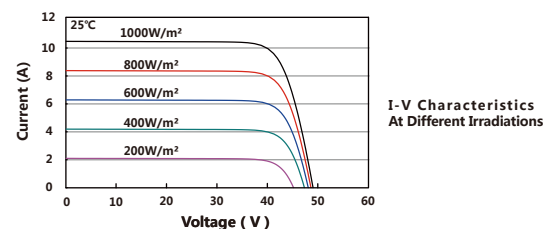
Power Gain (%)	Peak Power (Pmax) (W)	MPP Voltage (Vmp) (V)	MPP Current (Imp) (A)	Open Circuit Voltage (Voc) (V)	Short Circuit Current (Isc) (A)
5	418	40.9	10.22	49.0	10.71
10	431	40.9	10.53	49.0	11.03
15	444	41.0	10.85	49.1	11.36
20	458	41.0	11.16	49.1	11.69
25	471	41.0	11.47	49.1	12.01

*Tolerance : Pmax±3% ; Voc±4% ; Isc±5%

Engineering Drawing (unit : mm)



Characteristic Curves | HD144P-405



Packaging Configuration

Packing Type	20'GP	40'GP	40'HQ
Piece/Pallet		35	
Pallet/Container	5	11	22
Piece/Container	175	385	770

*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.



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