

JW-HT120N-R3

n-type Monofacial Single-Glass Black Frame Module

485-510W



<p>485W</p> <p>Maximum Power Output</p>	<p>23.1%</p> <p>Maximum Module Efficiency</p>	<p>0~+3%</p> <p>Power Output Tolerance</p>
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High Power Output
 SMBB technology reduces the distance between busbars and finger grid lines, improving reliability and increasing output



ZERO LID (Light Induced Degradation)
 n-type solar cell has no LID naturally which can increase power generation



Higher Reliability
 New generation TOPCon technology for the battery, featuring no web coating, no current leakage, and reater resistance to hot spots.



Better Weak Illumination Response
 Higher power output even under low-light environments like on cloudy or foggy days



Better Temperature Coefficient
 Lower temperature coefficient (-0.28%) and lower working temperature, resulting in more power.

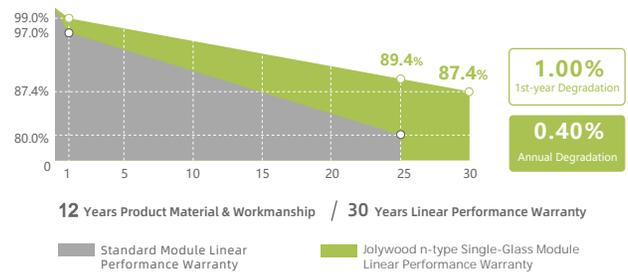


Lighter Module Weight
 Reduces weight by more than 20% compared to bifacial double glass module

Munich RE

IEC61215(2021), IEC61730(2023), IEC61701, IEC62716
 ISO9001:2015: Quality Management System
 ISO14001:2015: Environment Management System
 ISO45001:2018: Occupational health and safety management systems
 IEC62941: 2019: Quality system for PV module manufacturing

Linear Performance Warranty



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Electrical Properties | STC*

Testing Condition	Front Side					
Peak Power (Pmax) (W)	485	490	495	500	505	510
MPP Voltage (Vmp) (V)	36.74	36.92	37.10	37.28	37.46	37.64
MPP Current (Imp) (A)	13.20	13.27	13.34	13.41	13.48	13.55
Open Circuit Voltage (Voc) (V)	42.78	42.98	43.18	43.38	43.58	43.78
Short Circuit Current (Isc) (A)	14.00	14.06	14.12	14.18	14.24	14.30
Module Efficiency (%)	21.9	22.2	22.4	22.6	22.8	23.1

*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)	363	367	371	375	378	382
MPP Voltage (Vmp) (V)	35.18	35.35	35.52	35.69	35.87	36.04
MPP Current (Imp) (A)	10.33	10.38	10.44	10.49	10.55	10.60
Open Circuit Voltage (Voc) (V)	40.96	41.15	41.34	41.53	41.73	41.92
Short Circuit Current (Isc) (A)	11.30	11.35	11.40	11.45	11.50	11.55

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

Operating Properties

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

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 (NOCT)	42±2°C

Mechanical Properties

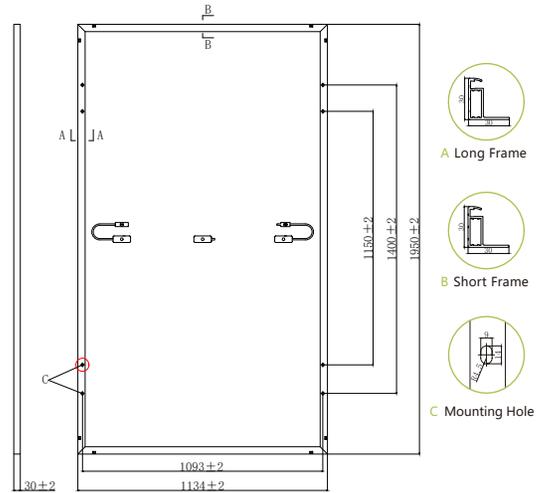
Number of Cells	120pcs
Module Dimension	1950mm*1134mm*30mm
Weight	24.0kg
Front Glass*	3.2mm Tempered glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 (3 diodes)
Length of Cable	4.0mm ² , +1300mm/-1300mm (Cable length can be customized)
Packaging Configuration	36pcs/Pallet,864pcs/40'HQ

Partner Section

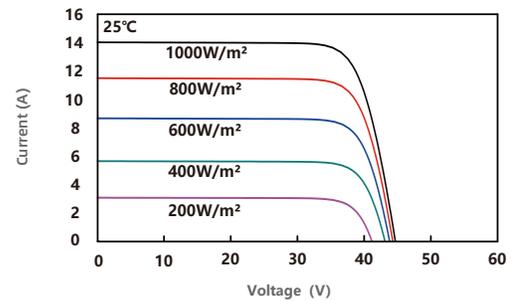
NOTE :

*The specification and key features described in this datasheet may deviate slightly and aren't 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.

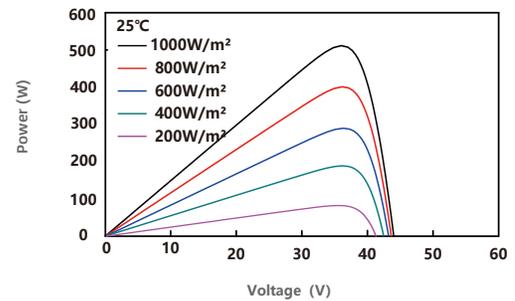
Engineering Drawing (unit: mm)



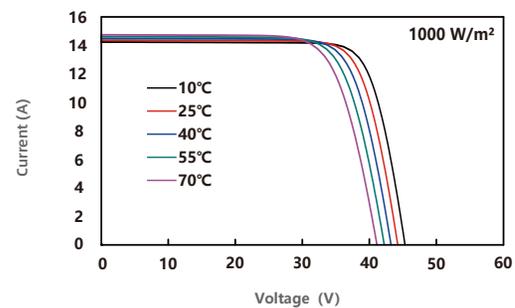
Characteristic Curves | HT120N-500



I-V Characteristics At Different Irradiations



P-V Characteristics At Different Irradiations



I-V Characteristics At Different Temperatures

