

## JNMP120-280~300(L)

"L" after the module type indicates that the type is suitable for 1000V DC.

### High efficiency poly solar module

#### JNMP120

Optimized BOM management and utilization, reliable and stable performance.

Half-cell design to reduce shadow effects and reduce loss.

Passed third-party tests of salt spray, ammonia, sand and dust, applicable to various scenarios.

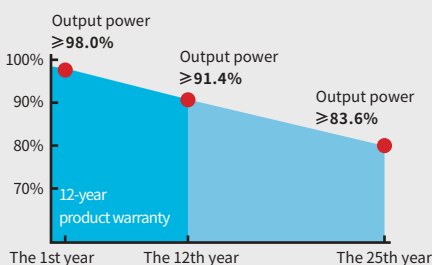
Demonstrated extremely low degradation guarantees long-term benefits of the power station.

#### CERTIFICATION



TUV: IEC/EN 61215, IEC/EN 61730  
 GB/T 19001-2016/ISO 9001:2015  
 GB/T 24001-2016/ISO 14001:2015  
 OHSAS 18001:2007  
 CNAS-CL01: ISO/IEC 17025:2017

#### QUALITY ASSURANCE



#### Advanced production process

Optimized 5BB design  
 Multi-layer anti-reflection film



#### Superior quality control

Full automatic production line  
 MES and ERP digitizing logistics management  
 100% three times EL and appearance inspection



#### Excellent power generation performance

0~+5W positive power tolerance  
 Improved low light irradiance performance and low degradation



#### Stable mechanical performance

Passed rigorous hail test  
 Withstands 5400Pa snow and 2400Pa wind loads



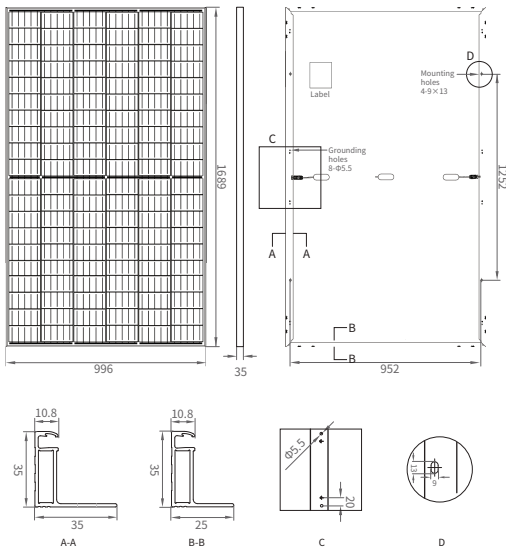
#### Long weather resistance

Excellent anti-PID performance  
 Certified in fireproofing for safety



#### JINNENG CLEAN ENERGY TECHNOLOGY LTD JINNENG PHOTOVOLTAIC TECHNOLOGY LTD

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**MECHANICAL PARAMETERS**

Cell (mm)	158.75*79.375 Poly
Dimensions (L*W*H) (mm)	1689*996*35
Weight (kg)	18.1
Cable Cross Section Size (mm <sup>2</sup> )	4
No. of Cells & Connections	120(6*20)
No. of Diodes	3

**QUALIFICATION**

Temperature Cycling Range (°C)	-40~+85
Max. Series Fuse Rating (A)	20
Max. Wind Load / Max. Snow Load (Pa)	2400 / 5400
Hot Spot Rate	100% Free
Fire Rating	Class C
Junction Box & Connector Protection Grade	IP68

**ELECTRICAL PARAMETERS**

Module Type	(1000V DC)	JNMP120-280L	JNMP120-285L	JNMP120-290L	JNMP120-295L	JNMP120-300L
	(1500V DC)	JNMP120-280	JNMP120-285	JNMP120-290	JNMP120-295	JNMP120-300
<b>STC</b> AM1.5 1000W/m <sup>2</sup> Cell Temperature 25°C	Max. Power at STC (Pmpp/W)	280	285	290	295	300
	Output Tolerance (W)	0-+5	0-+5	0-+5	0-+5	0-+5
	Max. Power Voltage (Vmp/V)	31.39	31.63	31.87	32.10	32.33
	Max. Power Current (Imp/A)	8.92	9.01	9.10	9.19	9.28
	Open Circuit Voltage (Voc/V)	38.58	38.86	39.13	39.40	39.66
	Short Circuit Current (Isc/A)	9.45	9.55	9.65	9.75	9.85
<b>NMOT</b> AM1.5 800W/m <sup>2</sup> Ambient Temperature 20°C Wind Speed 1m/s	Module Efficiency (%)	16.6	16.9	17.2	17.5	17.8
	Max. Power at NMOT (Pmpp/W)	210.4	214.1	217.9	221.7	225.4
	Max. Power Voltage (Vmp/V)	29.48	29.71	29.93	30.15	30.36
	Max. Power Current (Imp/A)	7.14	7.21	7.28	7.35	7.42
	Short Circuit Current (Isc/A)	7.62	7.70	7.78	7.86	7.94

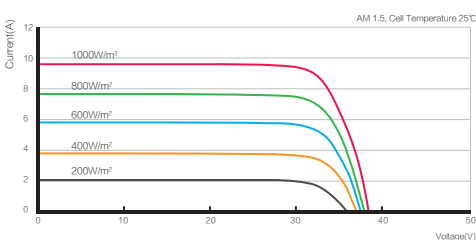
**PACKING CONFIGURATION**

Pieces Per Pallet	31
Pallets Per Stack	2
Extra Pieces Per Stack	4
Pieces Per Container	858

**TEMPERATURE COEFFICIENTS**

Nominal Module Operating Temperature (NMOT)	44±2°C
Temperature Coefficient Voltage (Voc)	-0.31 %/°C
Temperature Coefficient Current (Isc)	0.05 %/°C
Temperature Coefficient Power (Pm)	-0.38 %/°C

**I-V CURVE(290W)**



**Optional**

Connector Type	<input type="checkbox"/> MC4 Compatible	<input type="checkbox"/> MC4
Cable Length	<input type="checkbox"/> 295mm / 145mm	<input type="checkbox"/> Customized
Frame Color	<input type="checkbox"/> Silver	<input type="checkbox"/> Black
Max. System Voltage	<input type="checkbox"/> 1000V	<input type="checkbox"/> 1500V

Notes:

CAUTION: The electrical parameters in this product datasheet do not refer to only one module, nor are they promised in the contract. Read safety and installation instructions before using the product. The contents of this specification are for reference only and are subject to change without notice. Jinerjy reserves the right of final interpretation.  
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