

JNMM60-310~330(L)

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

High efficiency mono solar module

JNMM60

Ga-doped silicon wafer, effectively reduce LID and LeTID. SE technology effectively improves cell conversion efficiency.

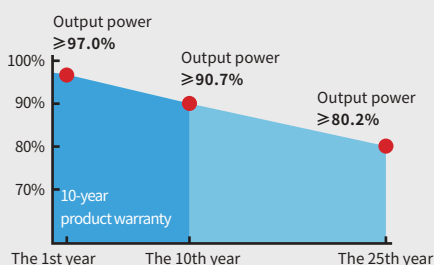
Optimized anti-reflective film and high-impedance encapsulating material to obtain excellent anti-PID performance.

CERTIFICATION



TUV: IEC/EN 61215, IEC/EN 61730
 KS: KS C 8561
 BIS: IS 14286/IEC 61215, IS/IEC 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
 Cell efficiency >22.8%



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



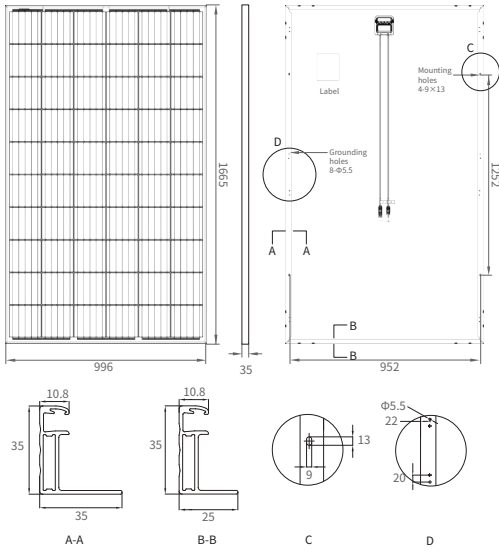
Long weather resistance

Excellent anti-PID performance
 Certified in fireproofing for safety



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MECHANICAL PARAMETERS

Cell (mm)	158.75*158.75 Mono
Dimensions (L*W*H) (mm)	1665*996*35
Weight (kg)	17.8
Cable Cross Section Size (mm ²)	4
No. of Cells & Connections	60(6*10)
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)	JNMM60-310L	JNMM60-315L	JNMM60-320L	JNMM60-325L	JNMM60-330L
	(1500V DC)	JNMM60-310	JNMM60-315	JNMM60-320	JNMM60-325	JNMM60-330
STC AM1.5 1000W/m ² Cell Temperature 25°C	Max. Power at STC (Pmpp/W)	310	315	320	325	330
	Output Tolerance (W)	0+5	0+5	0+5	0+5	0+5
	Max. Power Voltage (Vmp/V)	32.39	32.68	32.96	33.20	33.43
	Max. Power Current (Imp/A)	9.57	9.64	9.71	9.79	9.87
	Open Circuit Voltage (Voc/V)	39.57	40.01	40.44	40.87	41.22
	Short Circuit Current (Isc/A)	10.07	10.12	10.17	10.22	10.29
	Module Efficiency (%)	18.7	19.0	19.3	19.6	19.9
NMOT AM1.5 800W/m ² Ambient Temperature 20°C Wind Speed 1m/s	Max. Power at NMOT (Pmpp/W)	230.7	234.4	238.2	241.9	245.6
	Max. Power Voltage (Vmp/V)	30.14	30.40	30.66	30.88	31.10
	Max. Power Current (Imp/A)	7.66	7.71	7.77	7.83	7.90
	Open Circuit Voltage (Voc/V)	37.11	37.52	37.93	38.33	38.66
	Short Circuit Current (Isc/A)	8.12	8.16	8.21	8.25	8.30

PACKING CONFIGURATION

Pieces Per Pallet	31
Pallets Per Stack	2
Extra Pieces Per Stack	4
Stacks Per Container	14
Pieces Per Container	924

TEMPERATURE COEFFICIENTS

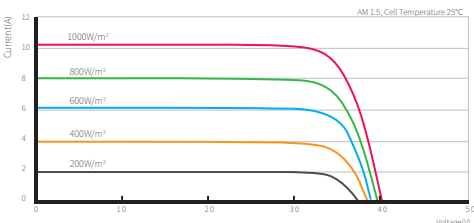
Nominal Module Operating Temperature (NMOT)	45±2°C
Temperature Coefficient Voltage (Voc)	-0.29 %/°C
Temperature Coefficient Current (Isc)	0.04 %/°C
Temperature Coefficient Power (Pm)	-0.40 %/°C

Optional

Connector Type	<input type="checkbox"/> MC4 Compatible	<input type="checkbox"/> MC4
Cable Length	<input type="checkbox"/> 800mm	<input type="checkbox"/> 1000mm
Frame Color	<input type="checkbox"/> Silver	<input type="checkbox"/> Black
Max. System Voltage	<input type="checkbox"/> 1000V	<input type="checkbox"/> 1500V

Notes:

I-V CURVE (320W)



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. Jinying reserves the right of final interpretation.
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