

JNMM144-530~550(L)

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

High efficiency mono solar module

JNMM144

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.

MBB and half-cell design to reduce shadow effects, improve module reliability and reduces loss.



Advanced production process

Optimized MBB design
Cell efficiency >23.0%



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

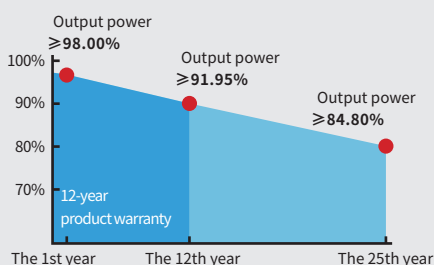
Passed rigorous hail test
Withstands 5400Pa snow and 2400Pa wind loads



Long weather resistance

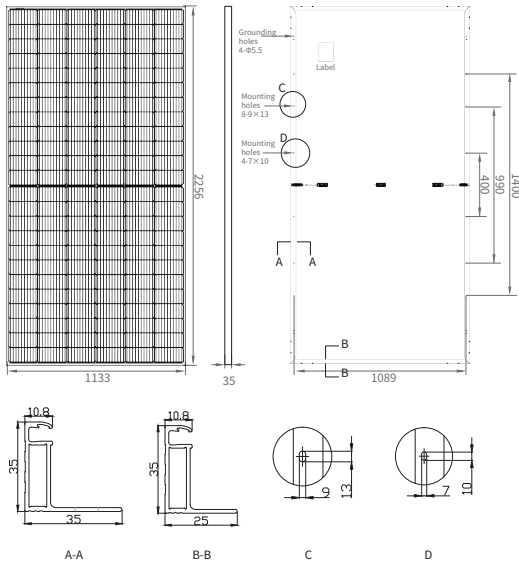
Excellent anti-PID performance
Certified in fireproofing for safety

QUALITY ASSURANCE



JINNENG CLEAN ENERGY TECHNOLOGY LTD JINNENG PHOTOVOLTAIC TECHNOLOGY LTD

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MECHANICAL PARAMETERS

Cell (mm)	182*91 Mono
Dimensions (L*W*H) (mm)	2256*1133*35
Weight (kg)	27.4
Cable Cross Section Size (mm ²)	4
No. of Cells & Connections	144(6*24)
No. of Diodes	3

QUALIFICATION	
Temperature Cycling Range (°C)	-40~+85
Max. Series Fuse Rating (A)	25
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)	JNMM144-530L	JNMM144-535L	JNMM144-540L	JNMM144-545L	JNMM144-550L
	(1500V DC)	JNMM144-530	JNMM144-535	JNMM144-540	JNMM144-545	JNMM144-550
STC AM1.5 1000W/m ² Cell Temperature 25°C	Max. Power at STC (Pmpp/W)	530	535	540	545	550
	Output Tolerance (W)	0+5	0+5	0+5	0+5	0+5
	Max. Power Voltage (Vmp/V)	41.03	41.28	41.54	41.76	41.95
	Max. Power Current (Imp/A)	12.92	12.97	13.00	13.06	13.12
	Open Circuit Voltage (Voc/V)	48.83	49.12	49.43	49.70	49.97
	Short Circuit Current (Isc/A)	13.74	13.79	13.83	13.88	13.93
	Module Efficiency (%)	20.7	20.9	21.1	21.3	21.5
NMOT AM1.5 800W/m ² Ambient Temperature 20°C Wind Speed 1m/s	Max. Power at NMOT (Pmpp/W)	400.3	404.0	407.8	411.6	415.4
	Max. Power Voltage (Vmp/V)	38.72	38.94	39.21	39.39	39.57
	Max. Power Current (Imp/A)	10.34	10.38	10.40	10.45	10.50
	Open Circuit Voltage (Voc/V)	46.10	46.37	46.67	46.92	47.17
	Short Circuit Current (Isc/A)	11.06	11.10	11.13	11.18	11.22

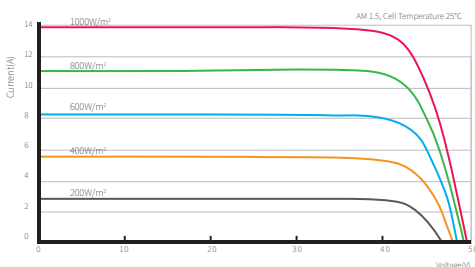
PACKING CONFIGURATION

Pieces Per Pallet	31
Pallets Per Stack	2
Stacks Per Container	10
Pieces Per Container	620

TEMPERATURE COEFFICIENTS

Nominal Module Operating Temperature (NMOT)	43±2°C
Temperature Coefficient Voltage (Voc)	-0.29 %/°C
Temperature Coefficient Current (Isc)	0.04 %/°C
Temperature Coefficient Power (Pm)	-0.35 %/°C

I-V CURVE(540W)



Optional

Connector Type	<input type="checkbox"/> MC4 Compatible	<input type="checkbox"/> MC4
Cable Length	<input type="checkbox"/> 325mm / 175mm	<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: