

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

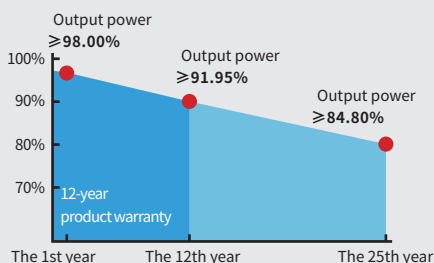
Passed rigorous hail test
Withstands 5400Pa snow and 2400Pa wind loads



Long weather resistance

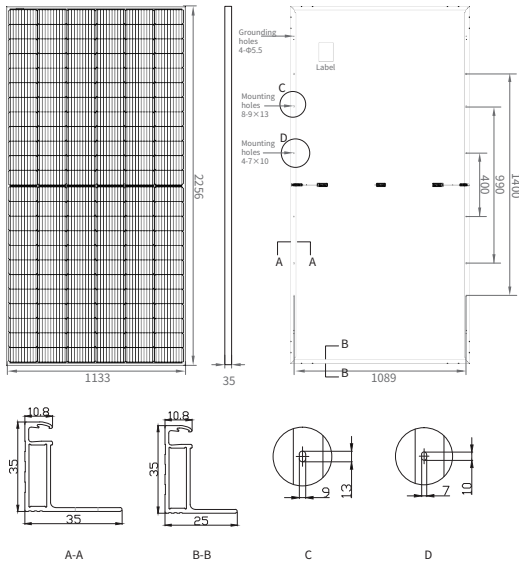
Excellent anti-PID performance
Certified in fireproofing for safety

QUALITY ASSURANCE



JINNENG CLEAN ENERGY TECHNOLOGY LTD JINNENG PHOTOVOLTAIC TECHNOLOGY LTD

No.1 Wenshui Economic Development Zone, Lvliang, Shanxi 032100, China
No. 533, East Guang'an Street, Yuci District, Jinzhong, Shanxi 030600, China
Tel: +86(354)2037999 E-mail: sales@jinery.com



MECHANICAL PARAMETERS

Cell (mm)	182*91 Mono
Dimensions (L*W*H) (mm)	2278*1134*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

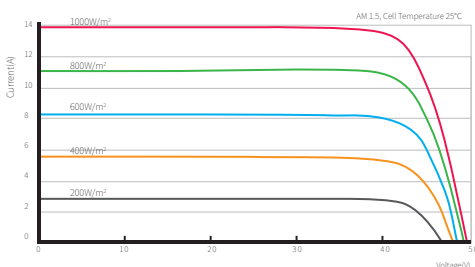
PACKING CONFIGURATION

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: