

# JNMM144-530~550(L)

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

## High efficiency mono solar module

### JNMM144

Deploying 182 wafer and advanced PERC technology, the module features high efficiency.

MBB and high-density interconnect technology improves power output and module efficiency.

Deploying advanced non-destructive cutting and half-cut technology, the module features excellent mechanical performance.

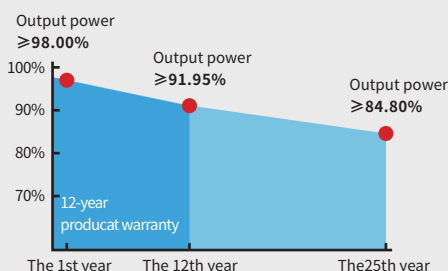
Higher power output brings competitive LCOE and BOS cost, more suitable for ground-mount and C&I PV stations.

### CERTIFICATION



TUV: IEC/EN 61215, IEC/EN 61730  
 BIS: IS 14286/IEC 61215, IS/IEC 61730  
 GB/T 19001-2016/ISO 9001:2015  
 GB/T 24001-2016/ISO 14001:2015  
 GB/T 45001-2020/ISO 45001:2018  
 CNAS-CL01:ISO/IEC 17025:2017

### QUALITY ASSURANCE



#### 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



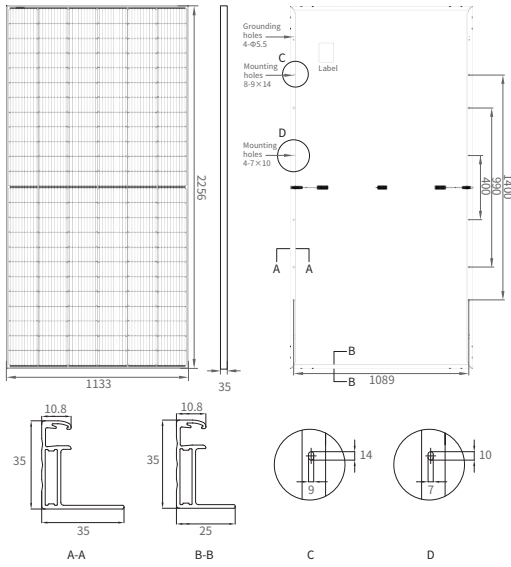
#### Long weather resistance

Excellent anti-PID performance  
 Certified in fireproofing for safety



### 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 <sup>2</sup> )	4
No. of Cells & Connections	144(6*24)
No. of Diodes	3

<b>QUALIFICATION</b>	
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
<b>STC</b> AM1.5 1000W/m <sup>2</sup> 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	41.98
	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
<b>NMOT</b> AM1.5 800W/m <sup>2</sup> Ambient Temperature 20°C Wind Speed 1m/s	Module Efficiency (%)	20.74	20.93	21.13	21.32	21.52
	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

\*Measurement tolerance: Pmax: ±3%, Voc: ±3%; Isc: ±5%.

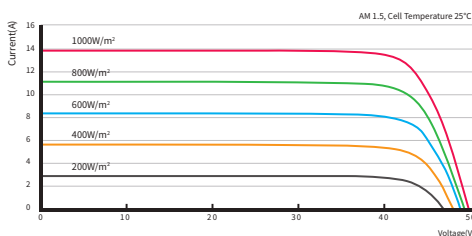
**PACKING CONFIGURATION**

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"/> 400mm / 300mm	<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: