

# JNMM144-530~555

## 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.

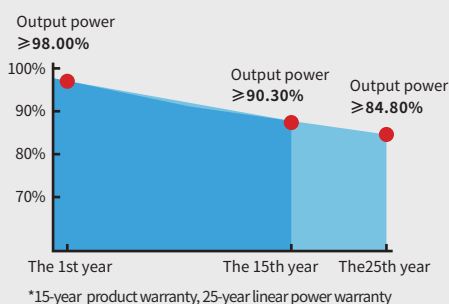
Higher power output brings competitive LCOE and BOS cost, more suitable for ground-mount and C&I PV stations.

#### 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



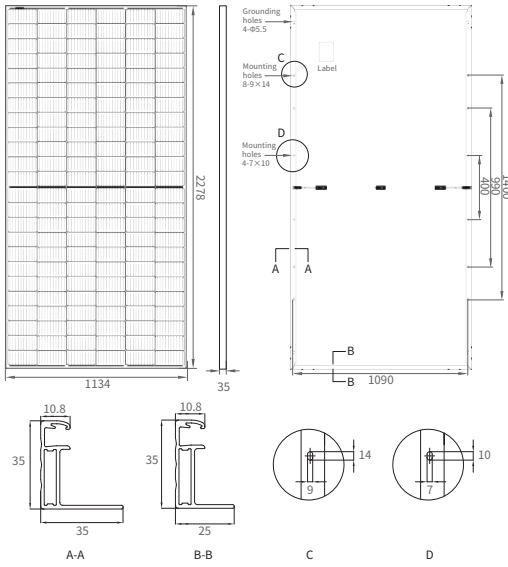
#### Stable mechanical performance

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



#### 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)	28.0
Cable Cross Section Size (mm <sup>2</sup> )	4
No. of Cells & Connections	144(6*24)
No. of Diodes	3
Connector Type	PV-JN01/PV-KST4-EVO 2/xy_UR,PV-KBT4-EVO2/xy_UR

**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	(1500V DC)	JNMM144-530	JNMM144-535	JNMM144-540	JNMM144-545	JNMM144-550	JNMM144-555
<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	555
	Output Tolerance (W)	0-+5	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	42.20
	Max. Power Current (Imp/A)	12.92	12.97	13.00	13.06	13.12	13.17
	Open Circuit Voltage (Voc/V)	48.83	49.12	49.43	49.70	49.97	50.24
	Short Circuit Current (Isc/A)	13.74	13.79	13.83	13.88	13.93	13.98
	Module Efficiency (%)	20.52	20.71	20.90	21.10	21.29	21.48
<b>NMOT</b> AM1.5 800W/m <sup>2</sup> Ambient Temperature 20°C Wind Speed 1m/s	Max. Power at NMOT (Pmpp/W)	400.3	404.0	407.8	411.6	415.4	419.1
	Max. Power Voltage (Vmp/V)	38.72	38.94	39.21	39.39	39.57	39.78
	Max. Power Current (Imp/A)	10.34	10.38	10.40	10.45	10.50	10.54
	Open Circuit Voltage (Voc/V)	46.10	46.37	46.67	46.92	47.17	47.43
	Short Circuit Current (Isc/A)	11.06	11.10	11.13	11.18	11.22	11.26

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

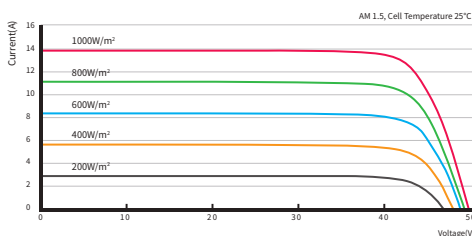
**PACKING CONFIGURATION**

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**

Cable Length	<input type="checkbox"/> 400mm / 300mm	<input type="checkbox"/> Customized
Frame Color	<input type="checkbox"/> Silver	<input type="checkbox"/> Black

Notes: