

JNMM120-360~380(L)

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

High efficiency mono solar module

JNMM120

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.

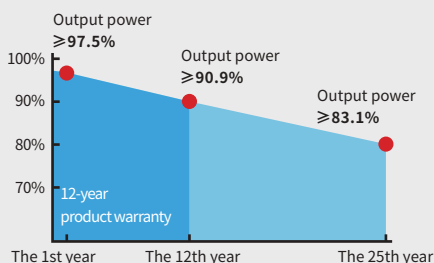
MBB and half-cell design to reduce shadow effects, improve module reliability and reduces loss.

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
OHSAS 18001:2007
CNAS-CL01: ISO/IEC 17025:2017

QUALITY ASSURANCE



Advanced production process

Optimized MBB 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



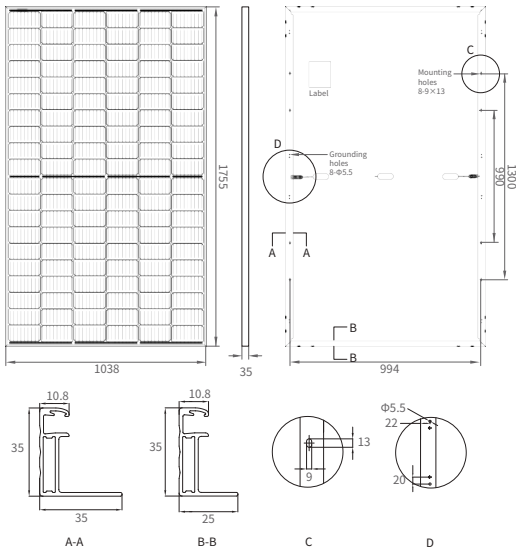
Long weather resistance

Excellent anti-PID performance
Certified in fireproofing for safety



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)	166*83 Mono
Dimensions (L*W*H) (mm)	1755*1038*35
Weight (kg)	19.5
Cable Cross Section Size (mm ²)	4
No. of Cells & Connections	120(6*20)
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

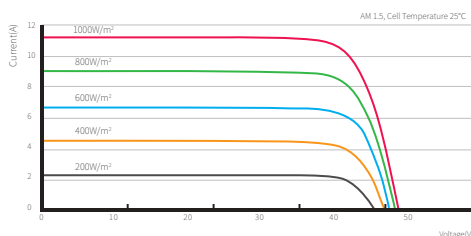
ELECTRICAL PARAMETERS

Module Type	(1000V DC)	JNMM120-360L	JNMM120-365L	JNMM120-370L	JNMM120-375L	JNMM120-380L
	(1500V DC)	JNMM120-360	JNMM120-365	JNMM120-370	JNMM120-375	JNMM120-380
STC AM1.5 1000W/m ² Cell Temperature 25°C	Max. Power at STC (P _{mp} /W)	360	365	370	375	380
	Output Tolerance (W)	0~+5	0~+5	0~+5	0~+5	0~+5
	Max. Power Voltage (V _{mp} /V)	33.68	33.89	34.08	34.28	34.48
	Max. Power Current (I _{mp} /A)	10.69	10.77	10.86	10.95	11.03
	Open Circuit Voltage (V _{oc} /V)	40.90	41.10	41.30	41.50	41.72
	Short Circuit Current (I _{sc} /A)	11.20	11.28	11.37	11.46	11.55
	Module Efficiency (%)	19.8	20.0	20.3	20.6	20.9
NMOT AM1.5 800W/m ² Ambient Temperature 20°C Wind Speed 1m/s	Max. Power at NMOT (P _{mp} /W)	271.0	274.7	278.5	282.2	286.0
	Max. Power Voltage (V _{mp} /V)	31.68	31.88	32.05	32.22	32.41
	Max. Power Current (I _{mp} /A)	8.55	8.62	8.69	8.76	8.82
	Open Circuit Voltage (V _{oc} /V)	38.61	38.80	38.99	39.18	39.39
	Short Circuit Current (I _{sc} /A)	9.02	9.08	9.15	9.23	9.30

PACKING CONFIGURATION

Pieces Per Pallet	31
Pallets Per Stack	2
Stacks Per Container	13
Pieces Per Container	806

I-V CURVE(370W)



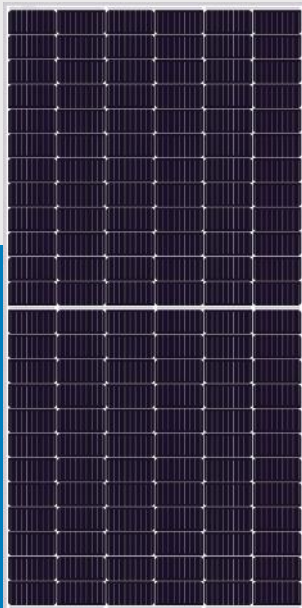
TEMPERATURE COEFFICIENTS

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)	-0.37 %/°C

Optional

Connector Type	☐ MC4 Compatible	☐ MC4
Cable Length	☐ 295mm / 145mm	☐ Customized
Frame Color	☐ Silver	☐ Black
Max. System Voltage	☐ 1000V	☐ 1500V

Notes:



JNMM144-435~455(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.

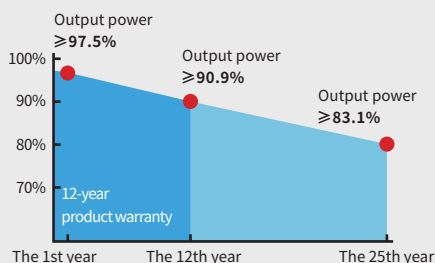
MBB and half-cell design to reduce shadow effects, improve module reliability and reduces loss.

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
OHSAS 18001:2007
CNAS-CL01:ISO/IEC 17025:2017

QUALITY ASSURANCE



Advanced production process

Optimized MBB 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



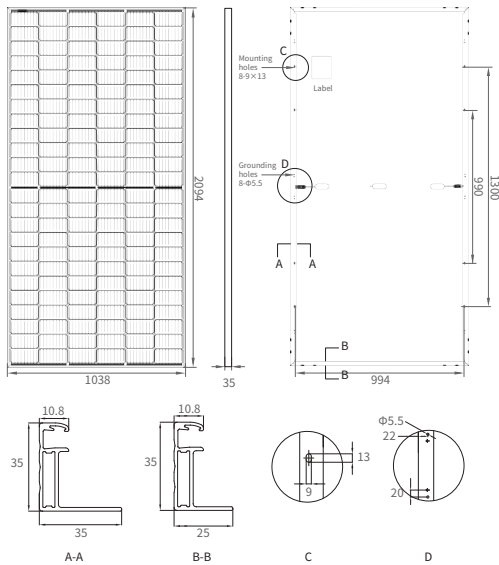
Long weather resistance

Excellent anti-PID performance
Certified in fireproofing for safety



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)	166*83 Mono
Dimensions (L*W*H) (mm)	2094*1038*35
Weight (kg)	23.3
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)	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)	JNMM144-435L	JNMM144-440L	JNMM144-445L	JNMM144-450L	JNMM144-455L
	(1500V DC)	JNMM144-435	JNMM144-440	JNMM144-445	JNMM144-450	JNMM144-455
STC AM1.5 1000W/m ² Cell Temperature 25°C	Max. Power at STC (P _{mp} /W)	435	440	445	450	455
	Output Tolerance (W)	0~+5	0~+5	0~+5	0~+5	0~+5
	Max. Power Voltage (V _{mp} /V)	40.77	40.97	41.16	41.36	41.56
	Max. Power Current (I _{mp} /A)	10.67	10.74	10.82	10.89	10.96
	Open Circuit Voltage (V _{oc} /V)	49.39	49.58	49.78	49.98	50.18
	Short Circuit Current (I _{sc} /A)	11.28	11.35	11.42	11.50	11.58
	Module Efficiency (%)	20.0	20.2	20.5	20.7	20.9
NMOT AM1.5 800W/m ² Ambient Temperature 20°C Wind Speed 1m/s	Max. Power at NMOT (P _{mp} /W)	327.4	331.2	334.9	338.7	342.5
	Max. Power Voltage (V _{mp} /V)	38.36	38.54	38.69	38.88	39.06
	Max. Power Current (I _{mp} /A)	8.54	8.59	8.66	8.71	8.77
	Open Circuit Voltage (V _{oc} /V)	46.63	46.81	47.00	47.18	47.37
	Short Circuit Current (I _{sc} /A)	9.08	9.14	9.19	9.26	9.32

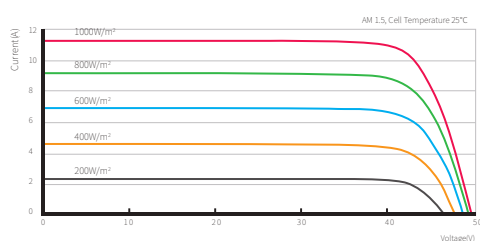
PACKING CONFIGURATION

Pieces Per Pallet	31
Pallets Per Stack	2
Stacks Per Container	11
Pieces Per Container	682

TEMPERATURE COEFFICIENTS

Nominal Module Operating Temperature (NMOT)	43±2°C
Temperature Coefficient Voltage (V _{oc})	-0.29 %/°C
Temperature Coefficient Current (I _{sc})	0.04 %/°C
Temperature Coefficient Power (P _m)	-0.37 %/°C

I-V CURVE(445W)



Optional

Connector Type	☐ MC4 Compatible	☐ MC4
Cable Length	☐ 295mm / 145mm	☐ Customized
Frame Color	☐ Silver	☐ Black
Max. System Voltage	☐ 1000V	☐ 1500V

Notes: