



LIGHTWEIGHT SOLAR MODULE

JINERGY DESIGN SERIES

25% lighter than regular solar module

JNMN108 - 435~455

- ✓ Optimized light-weight materials
- ✓ Expectable reliable performance
- ✓ Speed up installation experience
- ✓ Answer to roofs of low load-bearing

LIGHTER FOR BETTER EXPERIENCE

- Solve the pain point of load-bearing once and for all. Small size and flexible for system layout, handling and installation.
- Standard layout and fit with the mainstream brackets. Low Isc and compatible with most inverters and systems.



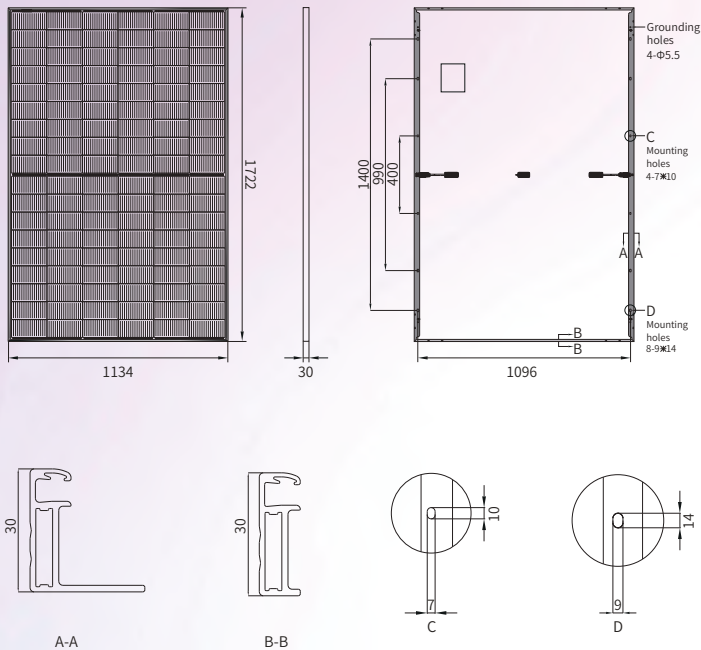
✓ 12 year product warranty

✓ 30 year power generation warranty



Monofacial Single Glass TOPCon Light Weight Module JNMN108-435~455

ENGINEERING DRAWING



MECHANICAL PARAMETERS

Cell (mm)	182.2*91.875 TOPCon
Dimensions (L*W*H) (mm)	1722*1134*30
Weight (kg)	15.0
Cable Cross Section Size (mm ²)	4
No. of Cells & Connections	108(6*18)
No. of Diodes	3
Frame	Anodized Aluminium Alloy
Glass Thickness (mm)	2.0

QUALIFICATION

Temperature Cycling Range (°C)	-40~+85
Max. Series Fuse Rating (A)	25
Max.Wind Load/Max.Snow Load (Pa)	2400/5400
Fire Rating	Class C
Junction Box & Connector Protection Grade	IP68

TEMPERATURE COEFFICIENTS

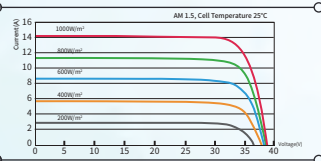
Nominal Module Operating Temperature (NMOT)	43±2°C
Temperature Coefficient Voltage (Voc)	-0.25 %/°C
Temperature Coefficient Current (Isc)	0.045 %/°C
Temperature Coefficient Power (Pm)	-0.29 %/°C

ELECTRICAL PARAMETERS

Module Type	(1500V DC)	JNMN108-435	JNMN108-440	JNMN108-445	JNMN108-450	JNMN108-455
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)	32.31	32.52	32.72	32.92	33.11
	Max. Power Current (I _{mp} /A)	13.47	13.54	13.61	13.68	13.75
	Open Circuit Voltage (V _{oc} /V)	38.64	38.78	38.92	39.06	39.20
	Short Circuit Current (I _{sc} /A)	14.14	14.22	14.30	14.38	14.46
	Module Efficiency (%)	22.28	22.53	22.79	23.04	23.30
NMOT AM1.5 800W/m ² Ambient Temperature 20°C Wind Speed 1m/s	Max. Power (P _{mp} /W)	331.9	335.7	339.5	343.3	347.1
	Max. Power Voltage (V _{mp} /V)	30.80	30.99	31.18	31.37	31.56
	Max. Power Current (I _{mp} /A)	10.78	10.83	10.89	10.94	11.00
	Open Circuit Voltage (V _{oc} /V)	36.72	36.86	36.99	37.12	37.26
	Short Circuit Current (I _{sc} /A)	11.39	11.46	11.52	11.59	11.65

*Measurement tolerance: P_{max}±3%, V_{oc}±3%, I_{sc}±5%.

I-V CURVE (445W)



PACKING CONFIGURATION

Pieces Per Pallet	36
Pallets Per Container	38
Pieces Per Container	1368

DEFAULT

OPTIONAL

Connector Type	☐ MC4 Compatible	☐ MC4
Cable Length	☐ 350mm/280mm	☐ Customized
Frame Color	☐ Silver	☐ Black

CE
TUV: IEC/EN 61215, IEC/EN 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

CAUTION: The electrical parameters in this product datasheet do not refer to only one module. Read safety and installation instructions before using the product. The contents of this specification are for reference only and are subject to change without notice. Jinerger reserves the right of final interpretation.
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12-year Product materials and workmanship quality warranty

Output power

The 1st year	The 12th year	The 25th year
≥99.00%	≥94.60%	≥87.40%

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