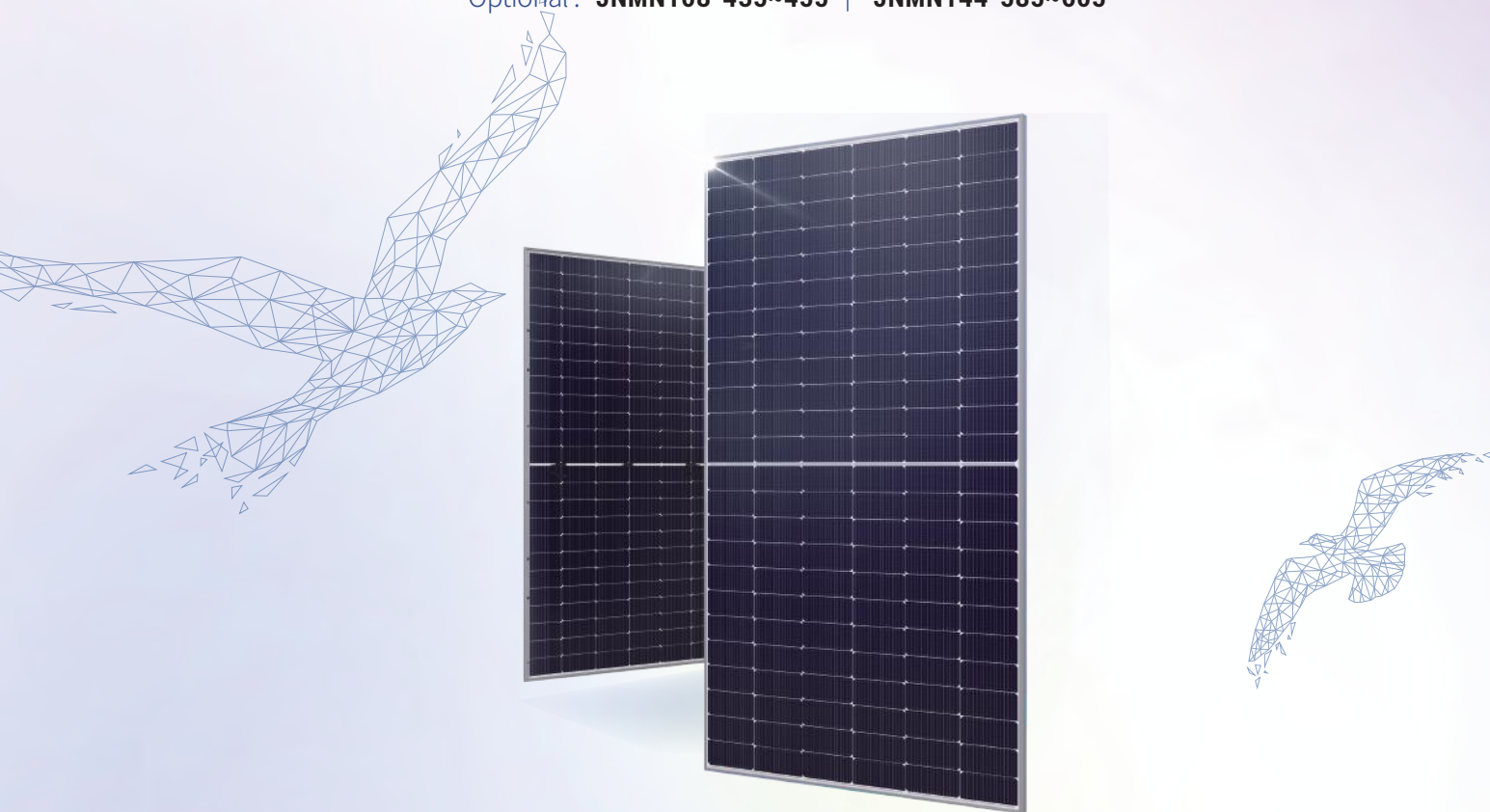




HIGH EFFICIENCY N-TOPCON SOLAR MODULE

M10L Cell

Optional: JNMN108-435~455 | JNMN144-585~605



10%+ lighter than dual-glass modules, suitable for load-bearing scenarios and reducing transportation and installation costs



Optimal frame solution with mechanics simulation output to ensure module mechanical reliability



Excellent power generation performance and significant power generation gain over the lifecycle

✓ 12 years product warranty ✓ 30 years power generation warranty



a JINNENG HOLDING GROUP company

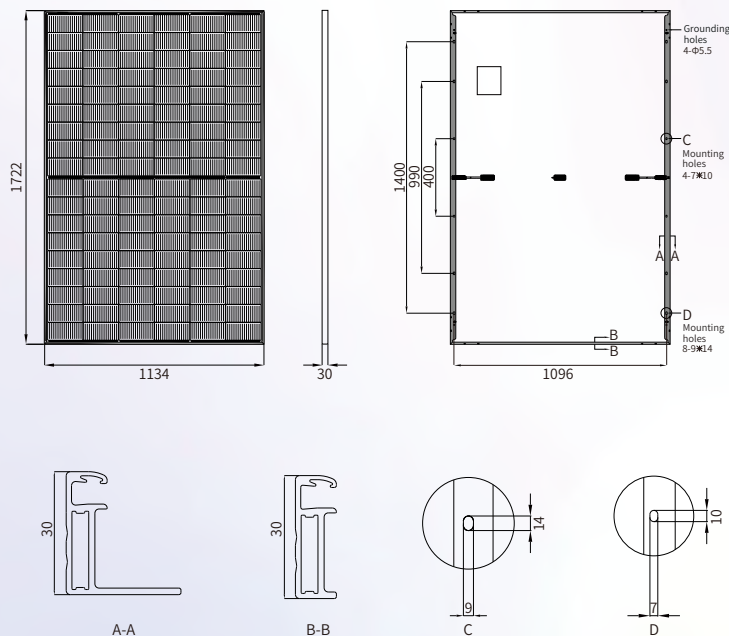
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JINNENG CLEAN ENERGY TECHNOLOGY LTD / JINNENG PHOTOVOLTAIC TECHNOLOGY CO. LTD

Monofacial Single Glass TOPCon 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)	21.0
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)	3.2

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

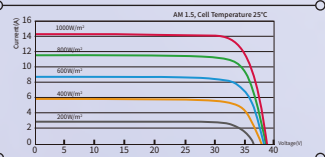
Nominal Module Operating Temperature (NMOT)	43±2°C
Temperature Coefficient Voltage (Voc)	-0.25 %/°C
Temperature Coefficient Current (Isc)	0.045 %/°C
Temperature Coefficient Power (Pm)	-0.29 %/°C

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 (Pmpp/W)	435	440	445	450	455
	Output Tolerance (W)	0~+5	0~+5	0~+5	0~+5	0~+5
	Max. Power Voltage (Vmp/V)	32.31	32.52	32.72	32.92	33.11
	Max. Power Current (Imp/A)	13.47	13.54	13.61	13.68	13.75
	Open Circuit Voltage (Voc/V)	38.64	38.78	38.92	39.06	39.20
	Short Circuit Current (Isc/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 (Pmpp/W)	331.9	335.7	339.5	343.3	347.1
	Max. Power Voltage (Vmp/V)	30.80	30.99	31.18	31.37	31.56
	Max. Power Current (Imp/A)	10.78	10.83	10.89	10.94	11.00
	Open Circuit Voltage (Voc/V)	36.72	36.86	36.99	37.12	37.26
	Short Circuit Current (Isc/A)	11.39	11.46	11.52	11.59	11.65

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

I-V CURVE (445W)



PACKING CONFIGURATION

Pieces Per Pallet	36
Pallets Per Container	26
Pieces Per Container	936

DEFAULT

OPTIONAL

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

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

12-year Product materials and workmanship quality warranty

Output power			
The 1st year	The 12th year	The 30th year	
≥99.00%	≥94.60%	≥87.40%	

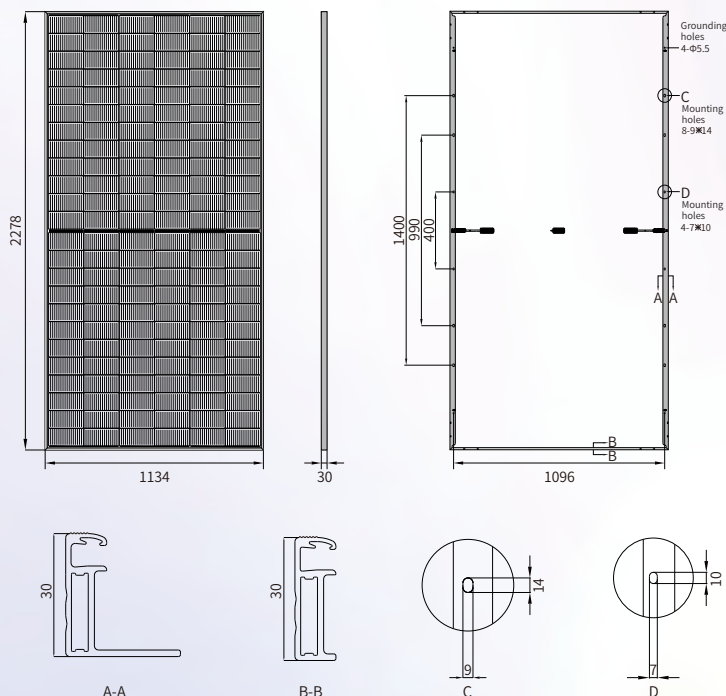
CAUTION: The electrical parameters in this product datasheet do not refer to only one module. Read safety and installation instructions before using the product. The contents of this specification are for reference only and are subject to change without notice. Jinery reserves the right of final interpretation. JNM-20250523-16.0 © 2025 JINNING CLEAN ENERGY TECHNOLOGY LTD. ALL RIGHTS RESERVED.

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Monofacial Single Glass TOPCon Module

JNMN144-585~605

ENGINEERING DRAWING



MECHANICAL PARAMETERS

Cell (mm)	182.2*91.875 TOPCon
Dimensions (L*W*H) (mm)	2278*1134*30
Weight (kg)	27.1
Cable Cross Section Size (mm ²)	4
No. of Cells & Connections	144(6*24)
No. of Diodes	3
Frame	Anodized Aluminium Alloy
Glass Thickness (mm)	3.2

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

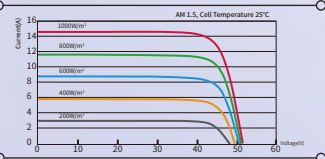
Nominal Module Operating Temperature (NMOT)	43±2°C
Temperature Coefficient Voltage (Voc)	-0.25 %/°C
Temperature Coefficient Current (Isc)	0.045 %/°C
Temperature Coefficient Power (Pm)	-0.29 %/°C

ELECTRICAL PARAMETERS

Module Type	(1500V DC)	JNMN144-585	JNMN144-590	JNMN144-595	JNMN144-600	JNMN144-605
STC	Max. Power at STC (Pmpp/W)	585	590	595	600	605
	Output Tolerance (W)	0~+5	0~+5	0~+5	0~+5	0~+5
	Max. Power Voltage (Vmp/V)	42.65	42.80	42.95	43.10	43.25
	Max. Power Current (Imp/A)	13.72	13.79	13.86	13.93	14.00
	Open Circuit Voltage (Voc/V)	51.12	51.26	51.40	51.54	51.68
	Short Circuit Current (Isc/A)	14.38	14.46	14.54	14.62	14.70
NMOT	Module Efficiency (%)	22.65	22.84	23.03	23.23	23.42
	Max. Power (Pmpp/W)	446.3	450.1	453.9	457.7	461.5
	Max. Power Voltage (Vmp/V)	40.66	40.80	40.94	41.07	41.21
	Max. Power Current (Imp/A)	10.98	11.03	11.09	11.14	11.20
	Open Circuit Voltage (Voc/V)	48.58	48.72	48.85	48.98	49.12
	Short Circuit Current (Isc/A)	11.59	11.65	11.72	11.78	11.84

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

I-V CURVE (595W)



PACKING CONFIGURATION

Pieces Per Pallet	36
Pallets Per Container	20
Pieces Per Container	720

DEFAULT

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

OPTIONAL



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

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12-year Product materials and workmanship quality warranty

Output power		
The 1st year	The 12th year	The 30th year
≥99.00%	≥94.60%	≥87.40%

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