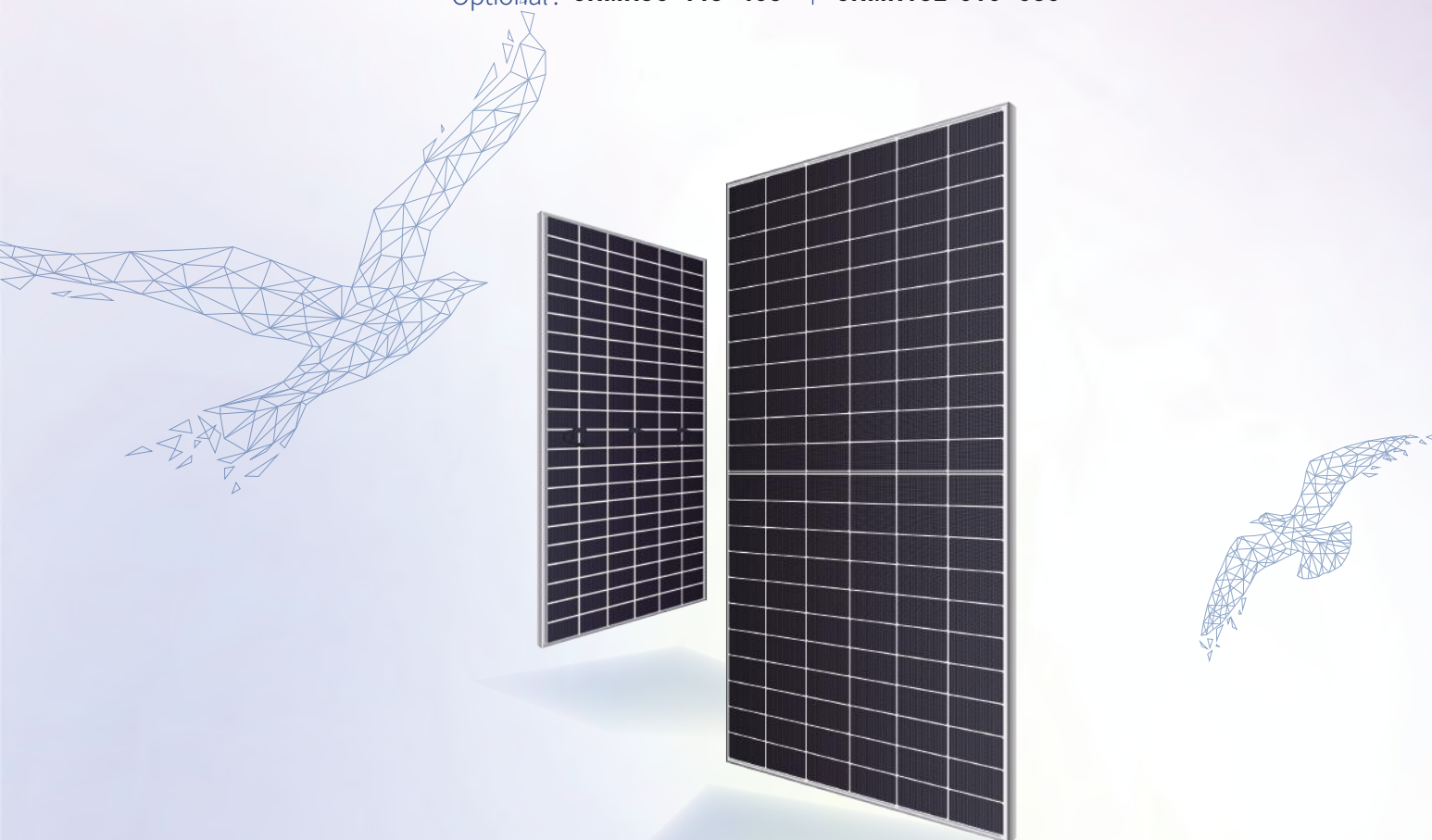




HIGH EFFICIENCY N-TOPCON SOLAR MODULE

G12R Cell

Optional: JNMN96-445~465 | JNMN132-610~630



-  G12R rectangular cells boost power and reduce system costs
-  Lower DC voltage to enhance system safety & stability
-  Overseas transportation modules are placed horizontally to maximize space utilization
-  Size optimization adapts to complex terrains and improves land utilization

 12 years product warranty  30 years power generation warranty



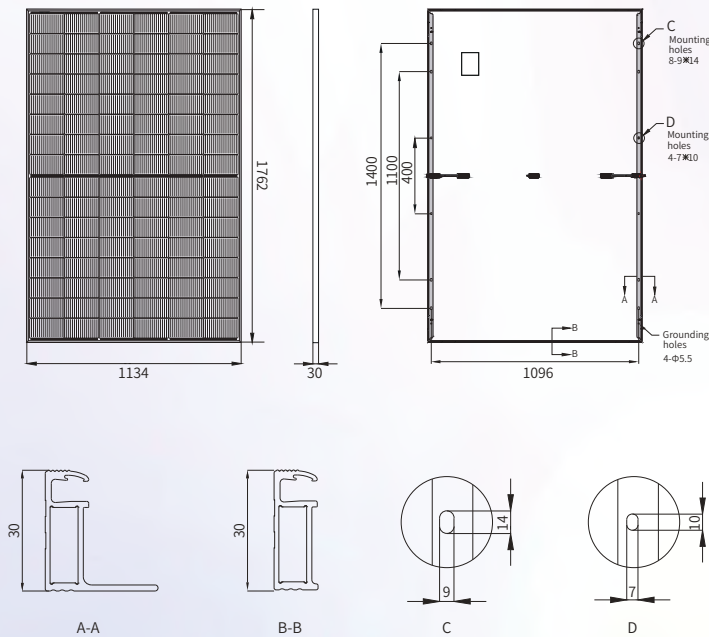
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Monofacial Single Glass TOPCon Module

JNMN96-445~465

ENGINEERING DRAWING



MECHANICAL PARAMETERS

Cell (mm)	182*105 TOPCon
Dimensions (L*W*H) (mm)	1762*1134*30
Weight (kg)	20.9
Cable Cross Section Size (mm ²)	4
No. of Cells & Connections	96(6*16)
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)	30
Max.Wind Load/Max.Snow Load (Pa)	2400/5400
Fire Rating	Class C
Junction Box & Connector Protection Grade	IP68

TEMPERATURE COEFFICIENTS

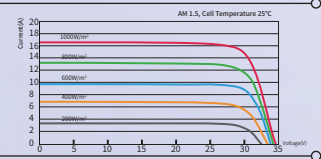
Nominal Module Operating Temperature (NMOT)	43±2°C
Temperature Coefficient Voltage (Voc)	-0.25 %/°C
Temperature Coefficient Current (Isc)	0.045 %/°C
Temperature Coefficient Power (Pm)	-0.29 %/°C

ELECTRICAL PARAMETERS

Module Type	(1500V DC)	JNMN96-445	JNMN96-450	JNMN96-455	JNMN96-460	JNMN96-465
STC AM1.5 1000W/m ² Cell Temperature 25°C	Max. Power at STC (Pmpp/W)	445	450	455	460	465
	Output Tolerance (W)	0~+5	0~+5	0~+5	0~+5	0~+5
	Max. Power Voltage (Vmp/V)	28.50	28.69	28.88	29.07	29.26
	Max. Power Current (Imp/A)	15.62	15.69	15.76	15.83	15.90
	Open Circuit Voltage (Voc/V)	34.10	34.30	34.50	34.70	34.90
	Short Circuit Current (Isc/A)	16.33	16.40	16.47	16.54	16.61
NMOT AM1.5 800W/m ² Ambient Temperature 20°C Wind Speed 1m/s	Module Efficiency (%)	22.27	22.52	22.77	23.02	23.27
	Max. Power (Pmpp/W)	339.5	343.3	347.1	350.9	354.7
	Max. Power Voltage (Vmp/V)	27.17	27.35	27.53	27.71	27.89
	Max. Power Current (Imp/A)	12.50	12.55	12.61	12.66	12.72
	Open Circuit Voltage (Voc/V)	32.41	32.60	32.79	32.98	33.17
	Short Circuit Current (Isc/A)	13.16	13.21	13.27	13.33	13.38

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

I-V CURVE (455W)



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
CAUTION: The electrical parameters in this product datasheet do not refer to only one module. Read safety and installation instructions before using the product.
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12-year Product materials and workmanship quality warranty

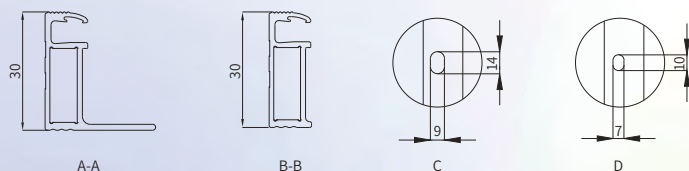
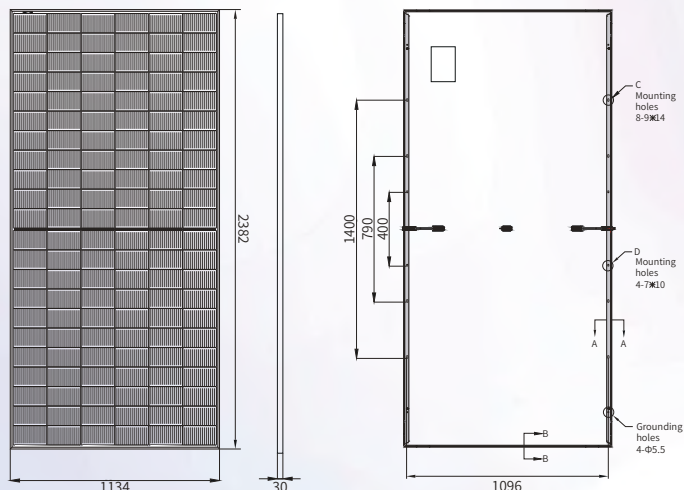
Output power		
The 1st year	The 12th year	The 30th year
≥99.00%	≥94.60%	≥87.40%

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Monofacial Single Glass TOPCon Module

JNMN132-610~630

ENGINEERING DRAWING



MECHANICAL PARAMETERS

Cell (mm)	182*105 TOPCon
Dimensions (L*W*H) (mm)	2382*1134*30
Weight (kg)	28.4
Cable Cross Section Size (mm ²)	4
No. of Cells & Connections	132(6*22)
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)	30
Max.Wind Load/Max.Snow Load (Pa)	2400/5400
Fire Rating	Class C
Junction Box & Connector Protection Grade	IP68

TEMPERATURE COEFFICIENTS

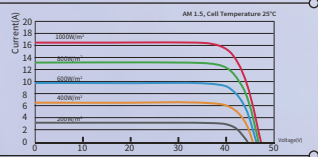
Nominal Module Operating Temperature (NMOT)	43±2°C
Temperature Coefficient Voltage (Voc)	-0.25 %/°C
Temperature Coefficient Current (Isc)	0.045 %/°C
Temperature Coefficient Power (Pm)	-0.29 %/°C

ELECTRICAL PARAMETERS

Module Type	(1500V DC)	JNMN132-610	JNMN132-615	JNMN132-620	JNMN132-625	JNMN132-630
STC AM1.5 1000W/m ² Cell Temperature 25°C	Max. Power at STC (Pmpp/W)	610	615	620	625	630
	Output Tolerance (W)	0~+5	0~+5	0~+5	0~+5	0~+5
	Max. Power Voltage (Vmp/V)	39.06	39.23	39.40	39.57	39.74
	Max. Power Current (Imp/A)	15.62	15.68	15.74	15.80	15.86
	Open Circuit Voltage (Voc/V)	48.23	48.40	48.57	48.74	48.91
	Short Circuit Current (Isc/A)	16.33	16.39	16.45	16.51	16.57
	Module Efficiency (%)	22.58	22.77	22.95	23.14	23.32
NMOT AM1.5 800W/m ² Ambient Temperature 20°C Wind Speed 1m/s	Max. Power (Pmpp/W)	465.4	469.2	473.0	476.8	480.6
	Max. Power Voltage (Vmp/V)	37.24	37.40	37.56	37.72	37.88
	Max. Power Current (Imp/A)	12.50	12.54	12.59	12.64	12.69
	Open Circuit Voltage (Voc/V)	45.84	46.00	46.16	46.32	46.48
	Short Circuit Current (Isc/A)	13.16	13.21	13.25	13.30	13.35

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

I-V CURVE (620W)



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

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.
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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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