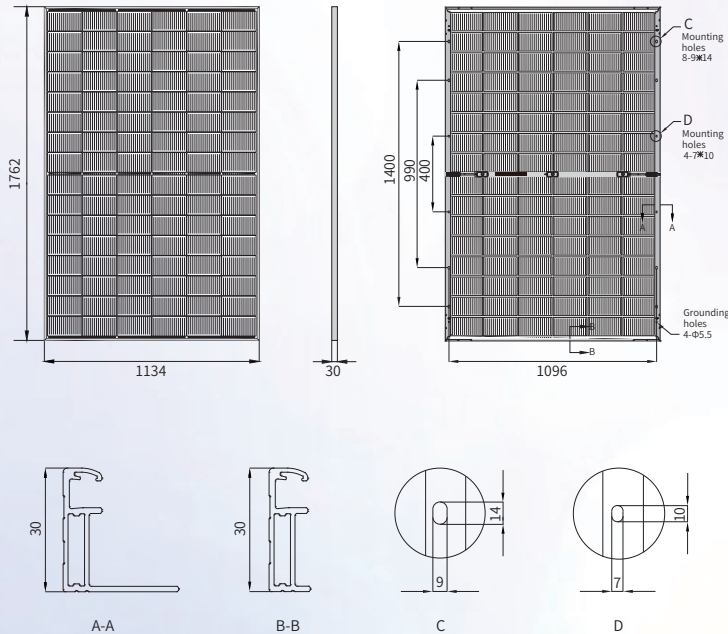


Bifacial Dual Glass TOPCon Module

JNBN96-445~465

ENGINEERING DRAWING



MECHANICAL PARAMETERS

Cell (mm)	182*105 TOPCon
Dimensions (L*W*H) (mm)	1762*1134*30
Weight (kg)	24.1
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)	2.0

QUALIFICATION

Temperature Cycling Range (°C)	-40~+85
Max. Series Fuse Rating (A)	35
Max.Wind Load/Max.Snow Load (Pa)	2400/5400
Fire Rating	Class C
Junction Box & Connector Protection Grade	IP68
Bifacial Factor(%)	80±5

TEMPERATURE COEFFICIENTS

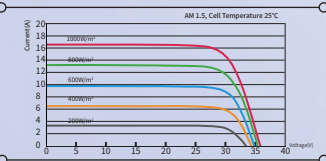
Nominal Module Operating Temperature (NMOT)	43±2°C
Temperature Coefficient Voltage (Voc)	-0.25 %/°C
Temperature Coefficient Current (Isc)	0.045 %/°C
Temperature Coefficient Power (Pm)	-0.29 %/°C

ELECTRICAL PARAMETERS

Module Type	(1500V DC)	JNBN96-445	JNBN96-450	JNBN96-455	JNBN96-460	JNBN96-465
STC AM1.5 1000W/m ² Cell Temperature 25°C	Max. Power at STC (P _{mp} /W)	445	450	455	460	465
	Output Tolerance (W)	0~+5	0~+5	0~+5	0~+5	0~+5
	Max. Power Voltage (V _{mp} /V)	28.65	28.82	28.99	29.16	29.33
	Max. Power Current (I _{mp} /A)	15.54	15.62	15.70	15.78	15.86
	Open Circuit Voltage (V _{oc} /V)	35.40	35.57	35.74	35.91	36.08
	Short Circuit Current (I _{sc} /A)	16.24	16.32	16.40	16.48	16.56
	Module Efficiency (%)	22.27	22.52	22.77	23.02	23.27
BNPI AM1.5 front 1000W/m ² rear 135W/m ² Cell Temperature 25°C	Max. Power (P _{mp} /W)	493	499	504	510	515
	Max. Power Voltage (V _{mp} /V)	28.65	28.82	28.99	29.16	29.33
	Max. Power Current (I _{mp} /A)	17.22	17.31	17.40	17.48	17.57
	Open Circuit Voltage (V _{oc} /V)	35.40	35.57	35.74	35.91	36.08
	Short Circuit Current (I _{sc} /A)	17.99	18.08	18.17	18.26	18.35
	Module Efficiency (%)	24.68	24.95	25.23	25.51	25.79

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

I-V CURVE (455W)



PACKING CONFIGURATION

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

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. 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 30th year
≥99.00%	≥94.60%	≥87.40%

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