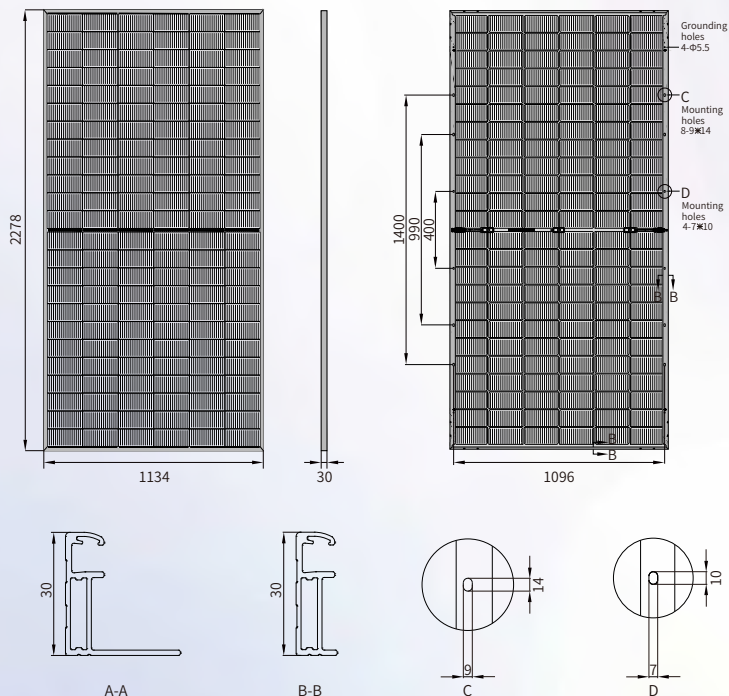


Bifacial Dual Glass TOPCon Module

JNBN144-580~600

ENGINEERING DRAWING



MECHANICAL PARAMETERS

Cell (mm)	182.2*91.875 TOPCon
Dimensions (L*W*H) (mm)	2278*1134*30
Weight (kg)	31.1
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)	2.0

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
Bifacial Factor(%)	80±5

TEMPERATURE COEFFICIENTS

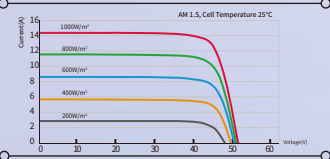
Nominal Module Operating Temperature (NMOT)	43±2°C
Temperature Coefficient Voltage (Voc)	-0.25 %/°C
Temperature Coefficient Current (Isc)	0.045 %/°C
Temperature Coefficient Power (Pm)	-0.29 %/°C

ELECTRICAL PARAMETERS

Module Type (1500V DC)		JNBN144-580	JNBN144-585	JNBN144-590	JNBN144-595	JNBN144-600
STC AM1.5 1000W/m ² Cell Temperature 25°C	Max. Power at STC (Pmpp/W)	580	585	590	595	600
	Output Tolerance (W)	0+5	0+5	0+5	0+5	0+5
	Max. Power Voltage (Vmp/V)	43.03	43.18	43.32	43.47	43.62
	Max. Power Current (Imp/A)	13.48	13.55	13.62	13.69	13.76
	Open Circuit Voltage (Voc/V)	51.24	51.41	51.58	51.75	51.92
	Short Circuit Current (Isc/A)	14.12	14.18	14.24	14.30	14.36
	Module Efficiency (%)	22.45	22.65	22.84	23.03	23.23
With Different Power Generation Gain (Regarding 590W as an example)	Backside Power Gain	10%		20%		30%
	Max. Power (Pmpp/W)	649.0		708.0		767.0
	Max. Power Voltage (Vmp/V)	43.32		43.32		43.32
	Max. Power Current (Imp/A)	14.98		16.34		17.71
	Open Circuit Voltage (Voc/V)	51.58		51.58		51.58
	Short Circuit Current (Isc/A)	15.66		17.09		18.51
	Module Efficiency (%)	25.12		27.41		29.69

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

I-V CURVE (590W)



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. 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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