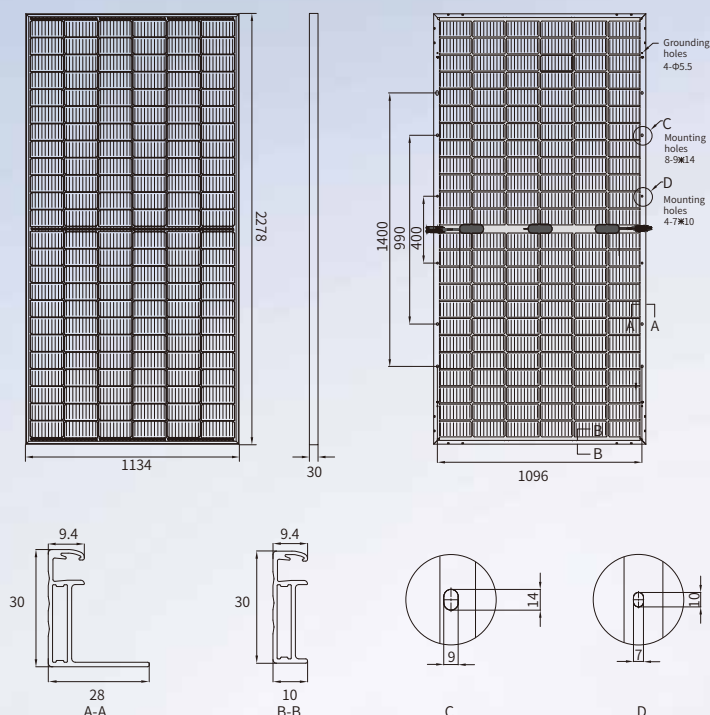


High power PERC bifacial solar module

JNBM144-530~550

ENGINEERING DRAWING



MECHANICAL PARAMETERS

Cell (mm)	182*91 PERC
Dimensions (L*W*H) (mm)	2278*1134*30
Weight (kg)	32.5
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
Hot Spot Rate	100% Free
Fire Rating	Class C
Junction Box & Connector Protection Grade	IP68
Bifacial Factor(%)	70±5

TEMPERATURE COEFFICIENTS

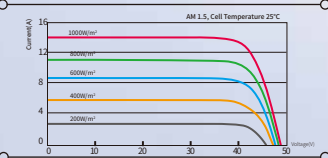
Nominal Module Operating Temperature (NMOT)	43±2°C
Temperature Coefficient Voltage (Voc)	-0.29 %/°C
Temperature Coefficient Current (Isc)	0.04 %/°C
Temperature Coefficient Power (Pm)	-0.34 %/°C

ELECTRICAL PARAMETERS

Module Type (1500V DC)		JNBM144-530	JNBM144-535	JNBM144-540	JNBM144-545	JNBM144-550
STC AM1.5 1000W/m² Cell Temperature 25°C	Max. Power at STC (Pmpp/W)	530	535	540	545	550
	Output Tolerance (W)	0-+5	0-+5	0-+5	0-+5	0-+5
	Max. Power Voltage (Vmp/V)	40.99	41.19	41.38	41.58	41.78
	Max. Power Current (Imp/A)	12.93	12.99	13.05	13.11	13.17
	Open Circuit Voltage (Voc/V)	48.77	49.02	49.24	49.47	49.70
	Short Circuit Current (Isc/A)	13.93	13.99	14.06	14.12	14.19
	Module Efficiency (%)	20.52	20.71	20.90	21.10	21.29
With Different Power Generation Gain (Regarding 540W as an example)	Backside Power Gain	10%		20%		30%
	Max. Power (Pmpp/W)	594		648		702
	Max. Power Voltage (Vmp/V)	41.40		41.38		41.40
	Max. Power Current (Imp/A)	14.35		15.66		16.96
	Open Circuit Voltage (Voc/V)	49.21		49.21		49.21
	Short Circuit Current (Isc/A)	15.46		16.87		18.27
	Module Efficiency (%)	22.99		25.08		27.18

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

I-V CURVE (540W)



PACKING CONFIGURATION

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

Default

Optional

Connector Type	☐ MC4 Compatible	☐ MC4
Cable Length	☐ 400mm/300mm	☐ 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
≥98.00%	≥93.05%	≥84.95%

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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