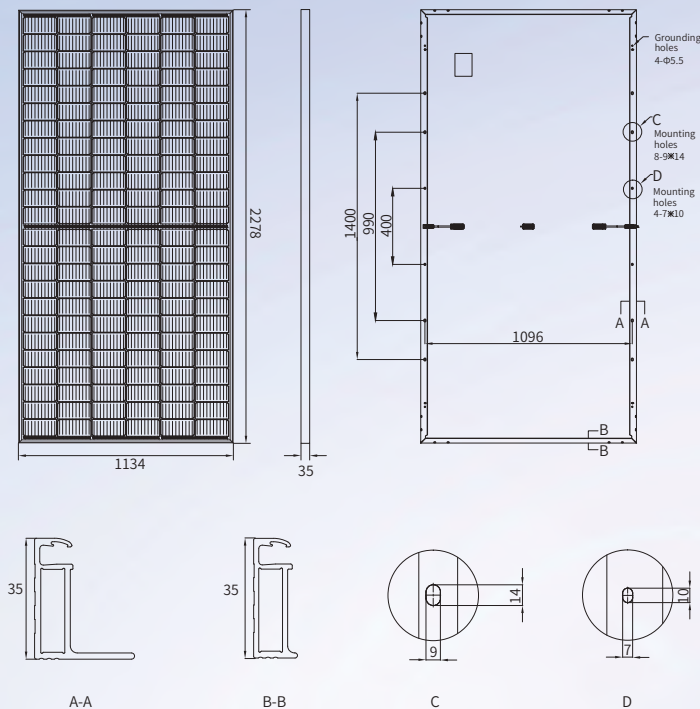


Monofacial Single Glass PERC Module

JNMM144-540~560

ENGINEERING DRAWING



MECHANICAL PARAMETERS

Cell (mm)	182*91 PERC
Dimensions (L*W*H) (mm)	2278*1134*35
Weight (kg)	27.4
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

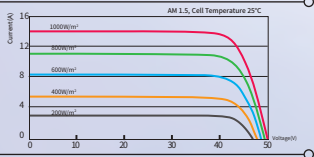
Nominal Module Operating Temperature (NMOT)	43±2°C
Temperature Coefficient Voltage (Voc)	-0.29 %/°C
Temperature Coefficient Current (Isc)	0.04 %/°C
Temperature Coefficient Power (Pm)	-0.34 %/°C

ELECTRICAL PARAMETERS

Module Type (1500V DC)		JNMM144-540	JNMM144-545	JNMM144-550	JNMM144-555	JNMM144-560
STC AM1.5 1000W/m ² Cell Temperature 25°C	Max. Power at STC (Pmpp/W)	540	545	550	555	560
	Output Tolerance (W)	0~+5	0~+5	0~+5	0~+5	0~+5
	Max. Power Voltage (Vmp/V)	41.54	41.76	41.98	42.20	42.42
	Max. Power Current (Imp/A)	13.00	13.06	13.12	13.17	13.22
	Open Circuit Voltage (Voc/V)	49.43	49.70	49.97	50.24	50.51
	Short Circuit Current (Isc/A)	13.83	13.88	13.93	13.98	14.03
	Module Efficiency (%)	20.90	21.10	21.29	21.48	21.68
NMOT AM1.5 800W/m ² Ambient Temperature 20°C Wind Speed 1m/s	Max. Power (Pmpp/W)	408.5	412.3	416.1	419.8	423.6
	Max. Power Voltage (Vmp/V)	39.28	39.46	39.64	39.85	40.06
	Max. Power Current (Imp/A)	10.40	10.45	10.50	10.54	10.58
	Open Circuit Voltage (Voc/V)	46.67	46.92	47.17	47.43	47.68
	Short Circuit Current (Isc/A)	11.13	11.18	11.22	11.26	11.30

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

I-V CURVE (550W)



PACKING CONFIGURATION

Pieces Per Pallet	31
Pallets Per Container	20
Pieces Per Container	620

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. The contents of this specification are for reference only and are subject to change without notice. Jinerger reserves the right of final interpretation. JNM-20250311-15.0U © 2025 JINERGER CLEAN ENERGY TECHNOLOGY LTD. ALL RIGHTS RESERVED.

12-year Product materials and workmanship quality warranty

Output power		
The 1st year	The 12th year	The 25th year
≥98.00%	≥91.95%	≥84.80%

