

JNBM144-525~545

High efficiency dual-glass bifacial mono solar module

JNBM144

Deploying 182 wafer and bifacial PERC technology, the module features high efficiency and bifacial power generation.

Providing 5%-25% extra power from backside in different scenarios.

MBB and high-density interconnect technology improves power output and module efficiency.

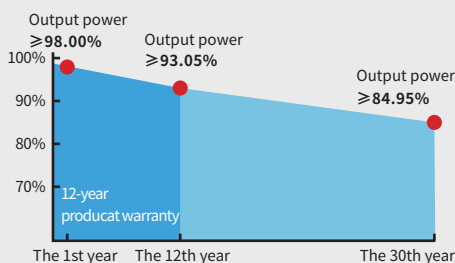
Dual-glass encapsulation and Al frame features better weather resistance and ensures long-term power generation and profit of the power station.

CERTIFICATION



TUV: IEC/EN 61215, IEC/EN 61730
 BIS: IS 14286/IEC 61215, IS/IEC 61730
 KS: KS C 8561
 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

QUALITY ASSURANCE



Advanced production process

Optimized MBB design
 Cell efficiency >23.0%



Superior quality control

Full automatic production line
 MES and ERP digitizing logistics management
 100% three times EL and appearance inspection



Excellent power generation performance

0~+5W positive power tolerance
 Improved low light irradiance performance and low degradation



Stable mechanical performance

Passed rigorous hail test
 Withstands 5400Pa snow and 2400Pa wind loads



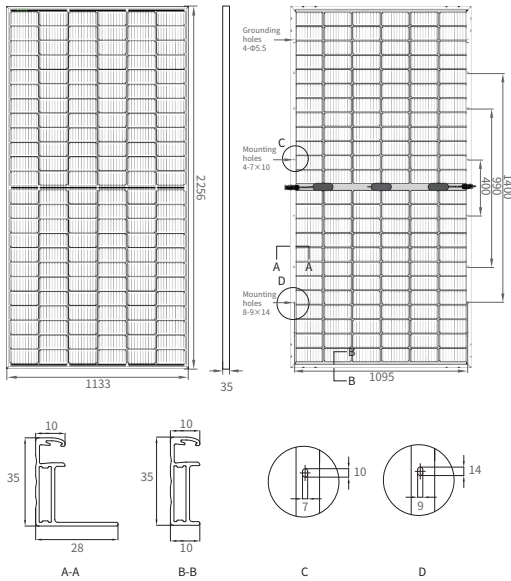
Long weather resistance

Excellent anti-PID performance
 Certified in fireproofing for safety



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MECHANICAL PARAMETERS

Cell (mm)	182*91 Bifacial Mono
Dimensions (L*W*H) (mm)	2256*1133*35
Weight (kg)	32.9
Cable Cross Section Size (mm ²)	4
No. of Cells & Connections	144(6*24)
No. of Diodes	3

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

QUALIFICATION

ELECTRICAL PARAMETERS

Module Type (1500V DC)		JNBM144-525	JNBM144-530	JNBM144-535	JNBM144-540	JNBM144-545
STC AM1.5 1000W/m ² Cell Temperature 25°C	Max. Power at STC (Pmpp/W)	525	530	535	540	545
	Output Tolerance (W)	0~+5	0~+5	0~+5	0~+5	0~+5
	Max. Power Voltage (Vmp/V)	40.80	40.99	41.19	41.38	41.58
	Max. Power Current (Imp/A)	12.88	12.93	12.99	13.05	13.11
	Open Circuit Voltage (Voc/V)	48.55	48.77	49.02	49.24	49.47
	Short Circuit Current (Isc/A)	13.86	13.93	13.99	14.06	14.12
	Module Efficiency (%)	20.54	20.74	20.93	21.13	21.32
Power Gain		10%		20%		30%
With Different Power Generation Gain (Regarding 535W as an example)	Max. Power at STC (Pmpp/W)		588.5	642		695.5
	Max. Power Voltage (Vmp/V)		41.22	41.21		41.21
	Max. Power Current (Imp/A)		14.28	15.58		16.88
	Open Circuit Voltage (Voc/V)		48.55	48.52		49.04
	Short Circuit Current (Isc/A)		15.38	16.78		18.18
	Module Efficiency (%)		23.02	25.12		27.21

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

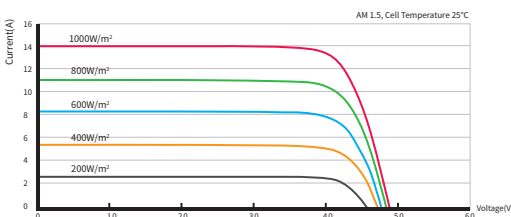
PACKING CONFIGURATION

Pieces Per Pallet	31
Pallets Per Stack	2
Stacks Per Container	10
Pieces Per Container	620

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)	-0.35 %/°C

I-V CURVE(535W)



Optional

Connector Type	<input type="checkbox"/> MC4 Compatible	<input type="checkbox"/> MC4
Cable Length	<input type="checkbox"/> 400mm / 300mm	<input type="checkbox"/> Customized
Frame Color	<input type="checkbox"/> Silver	<input type="checkbox"/> Black

Notes:

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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