

SHARP®

In step with your future.

Japanese Brand

Maximum Power

620W

Maximum Efficiency

23.0%

Power Tolerance

0~+3%

NB - JE620

Bifacial Mono-Crystalline Half-Cut Photovoltaic Module N-Type



CELL TYPE

N-Type/MBB/Monocrystalline/Half-Cell



HIGH EFFICIENCY, HIGH GENERATION

Based on Monocrystalline silicon wafer and TOPCon cell technology, the power generation efficiency has greatly improved with lower degradation and better temperature coefficient.



EXCELLENT ANTI-PID PERFORMANCE

Cell manufacturing technology optimization and materials control will help reduce PID degradation rate to the minimum

12

YEARS

Product Warranty

30

YEARS

Power Output Warranty



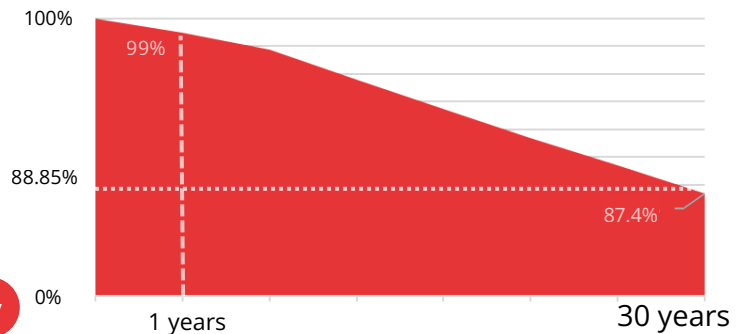
SUPPORT 1500V SYSTEM

Increase the number of system modules in series, reduce overall cost of terminal power plant



STRONG MECHANICAL LOAD CAPACITY

Withstand snow pressure up to 5400Pa on the front face and wind pressure up to 2400Pa on the rear face



CONNECT WITH US



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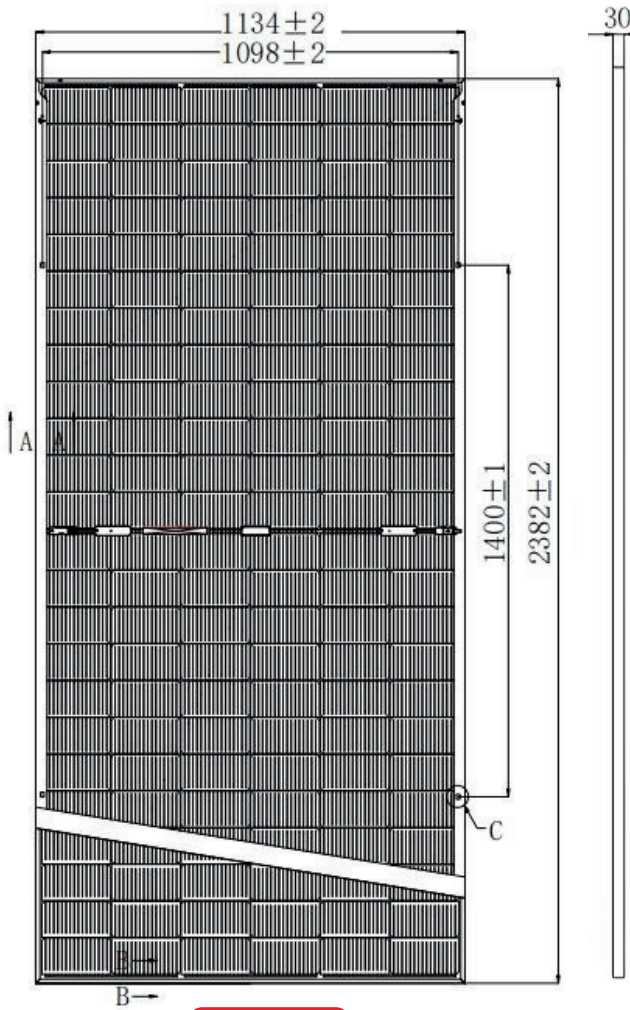
952 RAMALAND BUILDING.

15th FLOOR, RAMA IV ROAD. SURIYAWONG, BANGRAK, BANGKOK 10500 THAILAND

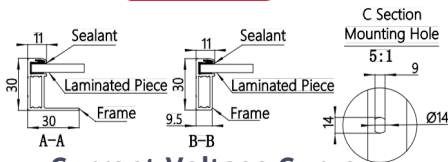


VISIT OUR WEBSITE

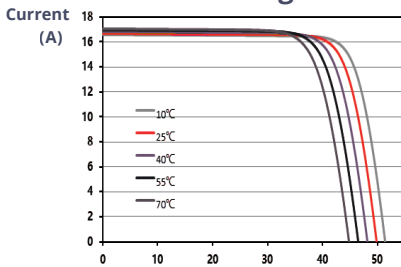
NB - JE620



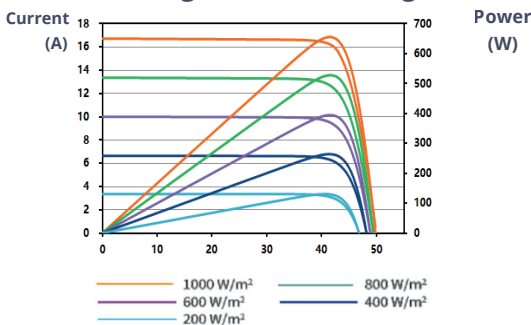
REAR VIEW



Current-Voltage Curve



Power-Voltage&Current-Voltage Curve



MECHANICAL DATA

No. of Cells	132 pcs. 6x11x2 series cells in parallel
Dimension (L x W x D)	2,382 x 1,134 x 30 mm
Weight	34 ±1kg
Frame	Anodized aluminum alloy
Front Glass	2.0 mm Semi-tempered embossed coated glass
Back Glass	2.0 mm Semi-tempered embossed/high-reflection
Junction Box	Protection IP-rating 68
Cable	4.0 mm ² ; 1,600±50 mm or customized length
Connector	C1 & MC4

BI-FACIAL MONOCRYSTALLINE

ELECTRICAL DATA (STC*)

Maximum Power	Pmax	620	Wp
Tolerance of Pmax		0 to +3	%
Open-Circuit Voltage	Voc	48.96	V
Short-Circuit Current	Isc	16.12	A
Voltage at Point of Maximum Power	Vmpp	40.90	V
Current at Point of Maximum Power	Impp	15.16	A
Module Efficiency	ηm	23.0	%

BI-FACIAL GENERATION DATA (STC*)

5% 15% 25%

Power Gain Rear Side					
Maximum Power	Pmax	651.12	712.88	775.05	Wp
Open-Circuit Voltage	Voc	48.96	48.96	48.96	V
Short-Circuit Current	Isc	16.93	18.54	20.15	A
Voltage at Point of Maximum Power	Vmpp	40.90	40.90	40.90	V
Current at Point of Maximum Power	Impp	15.92	17.43	18.95	A
Module Efficiency	ηm	24.1	26.4	28.7	%

STC = Standard Test Conditions : Irradiance 1,000 W/m², AM 1.5, Cell temperature 25 °C

TEMPERATURE CHARACTERISTICS

Cell Operating Temperature	45±2 °C
Temperature coefficient of Isc	0.047%/ °C
Temperature coefficient of Voc	-0.240%/ °C
Temperature coefficient of Pmax	-0.290%/ °C

PACKING

36 pcs./pallet, 720 pcs./40'HQ

OPERATING CONDITIONS

Maximum System Voltage	1500V for connector C1 1000V for connector MC4	Max Rear Face Static Load (Snow etc)*	5400Pa
Operating Temperature	-40~+85 °C		
Maximum Series Fuse Rating	30A	Max Rear Face Static Load (Wind etc)*	2400Pa



Note: Electrical parameters are only used for comparison between different types of modules. Due to product innovation, Sharp Solar Solutions Asia reserves the right to adjust the information in this datasheet at any time without prior notice. The technical data in this datasheet may be slightly deviated. Customer shall obtain the latest version of the datasheet when signing contract and making it an integral part of the binding contract signed by both parties.

