

SHARP®

In step with your future.

Japanese Brand

Maximum Power

640W

Maximum Efficiency

23.70%

Power Tolerance

0~+3%

NB - JE640

Mono-Crystalline Bifacial 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



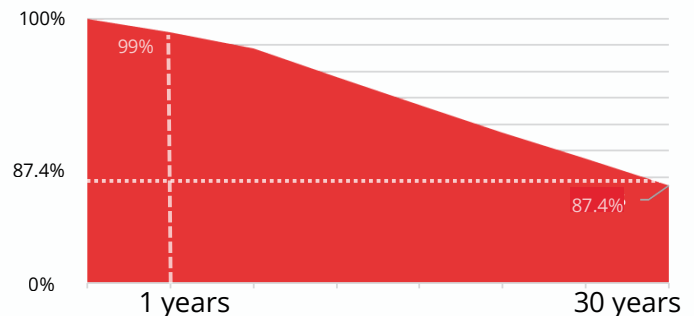
STRONG MECHANICAL LOAD CAPACITY

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



SUPPORT 1500V SYSTEM

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



CONNECT WITH US



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http://sssa.co.th



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952 RAMALAND BUILDING.

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



VISIT OUR WEBSITE

NB - JE640

MECHANICAL DATA

BI-FACIAL MONOCRYSTALLINE

No. of Cells	132 pcs N Type/MBB/Half-Cell
Dimension (L x W x D)	2,382 x 1,134 x 30 mm
Weight	34 kg
Frame	Anodized aluminum alloy
Front Glass	2.0 mm Semi-tempered embossed coated glass
Back Glass	2.0 mm Semi-tempered grid glass
Junction Box	Protection Degree IP68; 3 diodes
Cable	4.0 mm ² ; +300mm, -200mm or customized length
Connector	C1

ELECTRICAL PARAMETERS (STC) Model: NB - JE640 (640W)

Max Power	Pmax	640	W
Max Power Voltage	Vmp	41.56	V
Max Power Current	Imp	15.40	A
Open Circuit Voltage	Voc	49.72	V
Short Circuit Current	Isc	16.38	A
Module Efficiency	ηm	23.7	%

STC(Standard Test Condition): AM1.5, Irradiance 1000W/m², Cell Temperature 25°C

BI-FACIAL GENERATION DATA (BNPI)

Maximum Power	Pmax	691	696	702	708	Wp
Open-Circuit Voltage	Voc	49.34	49.52	49.72	41.75	V
Short-Circuit Current	Isc	17.90	17.98	18.05	18.12	A
Voltage at Point of Maximum Power	Vmpp	41.23	41.36	41.56	40.90	V
Current at Point of Maximum Power	Impp	16.76	16.83	16.89	16.96	A

BNPI(Bi-facial Nameplate Irradiance): AM1.5, Irradiance: front 1000W/m², rear 135W/m², Cell Temperature 25°C

TEMPERATURE CHARACTERISTICS

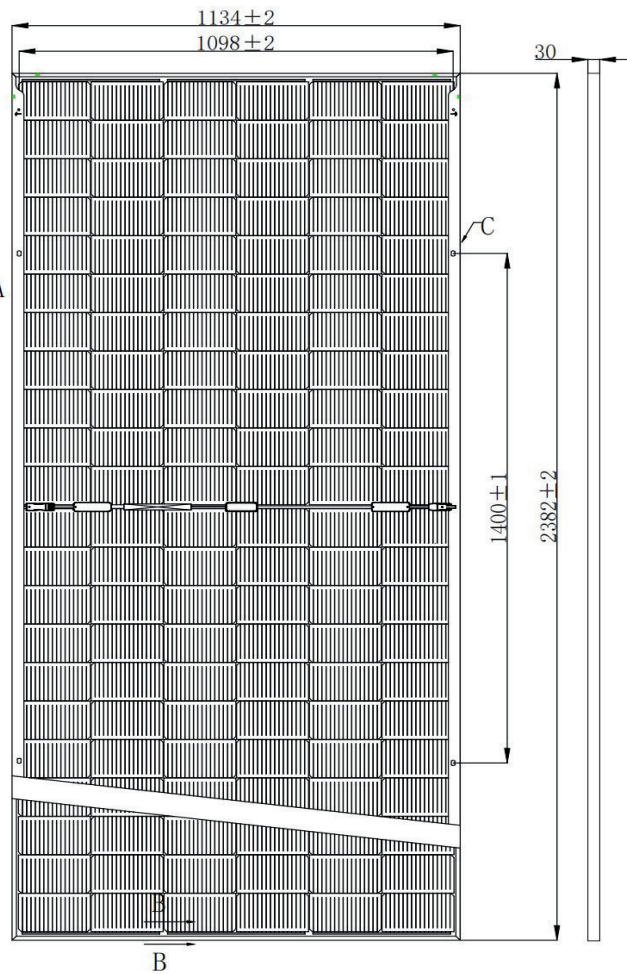
Cell Operating Temperature	45±2 °C
Temperature coefficient of Isc	0.047%/ °C
Temperature coefficient of Voc	-0.240%/ °C
Temperature coefficient of Pmax	-0.290%/ °C

PACKING

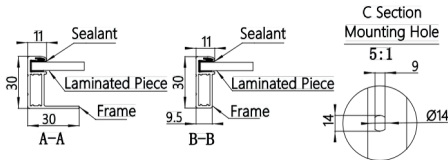
36 pcs./pallet, 720 pcs./40'HQ

OPERATING CONDITIONS

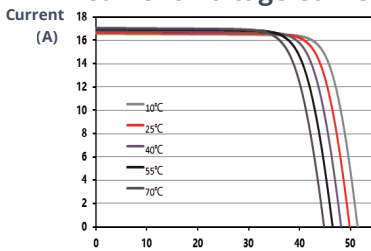
Maximum System Voltage	1500V for connector C1	Max Rear Face Static Load (Snow etc)*	5400Pa
Operating Temperature	-40~+85 °C		
Maximum Series Fuse Rating	30A	Max Rear Face Static Load (Wind etc)*	2400Pa



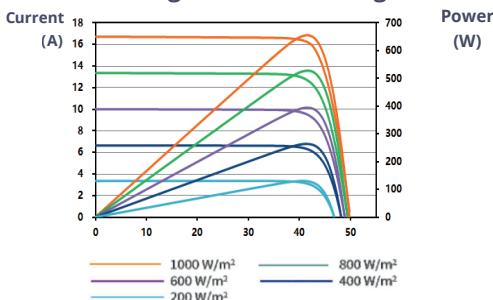
REAR VIEW



Current-Voltage Curve



Power-Voltage&Current-Voltage Curve



Note: Electrical parameters are only used for comparison between different types of modules.

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