

N-TOPCon

N-type Mono High Efficiency
Double Glass Bifacial PV Module

635-660W

POWER RANGE

660W

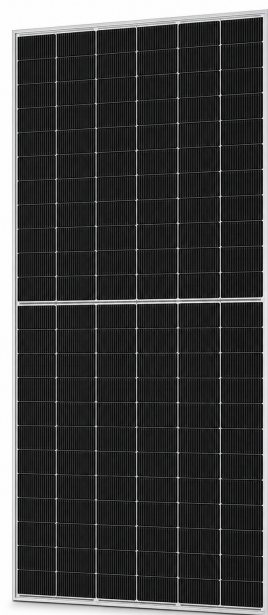
MAXIMUM POWER

23.61%

MODULE EFFICIENCY

0~+5W

POWER TOLERANCE



PERFORMANCE ADVANTAGES

DESIGNED FOR DEPENDABLE OUTPUT

● Excellent Power Output

Efficient cell technology and advanced manufacturing improve module power output.

● Temperature Coefficient

Strong outdoor generation performance across a wide operating temperature range.

● Ultra-multi-busbar

Improved light utilization and current collection support output and reliability.

● No LeTID / LID

N-type cell architecture delivers virtually no light-induced degradation loss.

● Irradiance Response

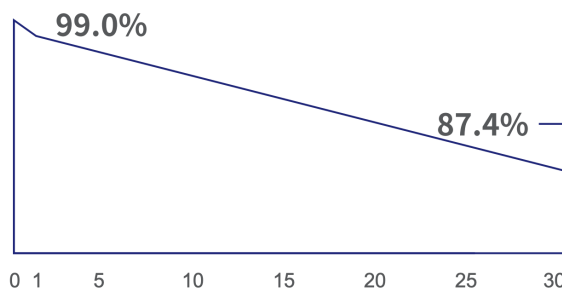
Reliable weak-light generation in early morning, evening and cloudy conditions.

● High Profitability

Lower BOS and energy costs support stronger long-term project returns.

LINEAR PERFORMANCE WARRANTY

POSN78BI / 30 YEARS



1.0%

1ST YEAR

0.4%

ANNUAL

15 YEAR

PRODUCT

30 YEAR

LINEAR

CERTIFICATION & ASSURANCE

VERIFIED SYSTEMS. LONG-TERM CONFIDENCE.



CERTIFIED SYSTEMS

IEC 61215:2016
IEC 61730:2016
ISO 9001:2015
ISO 14001:2015
ISO 45001:2018

LONG-TERM ASSURANCE

15-year material and workmanship warranty

30-year linear power warranty

ELECTRICAL PROPERTIES / STC

POSN78BI

Peak Power (Pmax/W)	635	640	645	650	655	660
MPP Voltage (Vmp/V)	47.89	48.08	48.28	48.47	48.66	48.85
MPP Current (Imp/A)	13.26	13.31	13.36	13.41	13.46	13.51
Open Circuit Voltage (Voc/V)	57.33	57.53	57.73	57.93	58.13	58.33
Short Circuit Current (Isc/A)	13.89	13.94	13.99	14.04	14.09	14.14
Module Efficiency (%)	22.72	22.90	23.07	23.25	23.43	23.61

*STC (Standard Test Conditions): Irradiance 1000 W/m², cell temperature 25°C, AM 1.5

ELECTRICAL PROPERTIES / BNPI

REFERENCE CONDITIONS

Peak Power (Pmax/W)	704	709	715	720	726	731
MPP Voltage (Vmp/V)	47.89	48.10	48.28	48.48	48.66	48.85
MPP Current (Imp/A)	14.70	14.74	14.81	14.85	14.92	14.96
Open Circuit Voltage (Voc/V)	57.35	57.55	57.75	57.95	58.15	58.35
Short Circuit Current (Isc/A)	15.39	15.45	15.50	15.56	15.61	15.66

*Bifacial Test Conditions (BNPI): Front-side irradiance 1000 W/m², back-side irradiance 135 W/m², temperature 25°C, AM 1.5

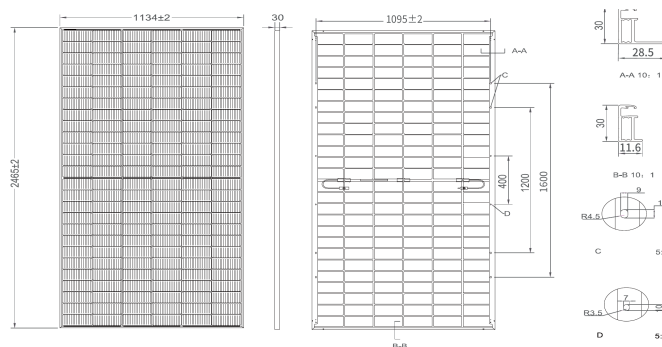
MECHANICAL PROPERTIES

156 HALF-CELLS

Cell Type	n-type half cell
Number of Cells	156pcs(2*78)
Module Dimension	2465mm*1134mm*30mm
Weight	33.9kg
Front / Rear Glass	2.0mm/2.0mm
Frame	Anodized Aluminum Alloy
Junction Box	IP68
Output cables	+300mm / -200mm or Customized Length

ENGINEERING DRAWINGS

UNIT: MM



For specific dimensions and tolerance ranges, refer to the corresponding component drawings.

TEMPERATURE COEFFICIENT

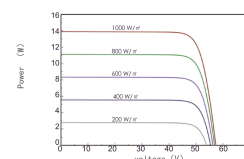
Temperature coefficients of Pmax	-0.29% / °C
Temperature coefficients of Voc	-0.25% / °C
Temperature coefficients of Isc	+0.045% / °C
Nominal Module Operating Temperature	42±2 °C

OPERATING PROPERTIES

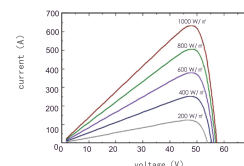
Operating Temperature (°C)	-40°C~+85°C
Maximum System Voltage (V)	1500V DC IEC
Maximum Series Fuse Rating (A)	30A
Power Tolerance	0~+5W
Bifaciality	80%±5%
Static load	Snow load 5400Pa, Wind load 2400Pa
Packaging Configuration	36pcs/pallet, 720pcs/13m flatcar 36pcs/pallet, 864pcs/17.5m flatcar

CHARACTERISTIC CURVES

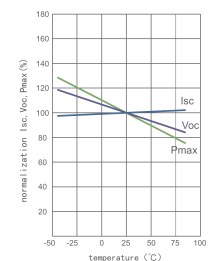
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Current and voltage curves under different irradiances



Power and voltage curves under different irradiances



Temperature Curves of Isc, Voc, Pmax under Different Temperatures