

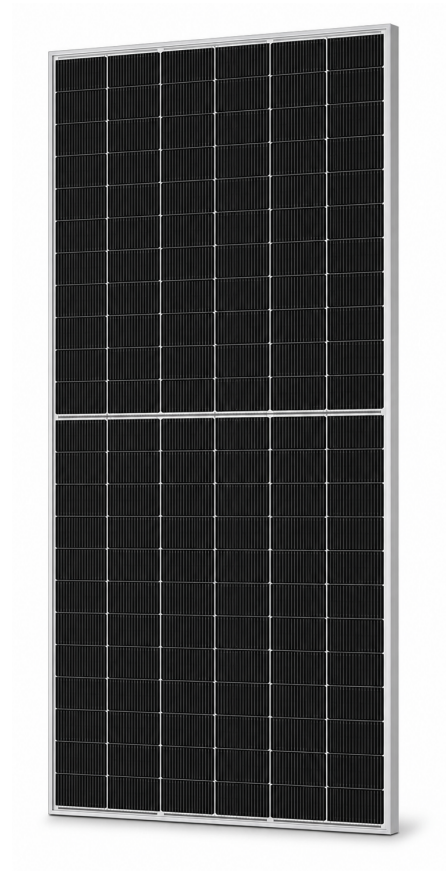
POSN78BI

635-660 W

N-TOPCon bifacial PV module

High-efficiency N-type monocrystalline cells with double-glass bifacial construction for photovoltaic installations.

N-type / double glass / bifacial



Product illustration

660 W

MAXIMUM POWER

23.61%

MODULE EFFICIENCY

0~+5 W

POWER TOLERANCE

Excellent Power Output

Efficient cell technology and advanced manufacturing improve module power output.

Ultra-multi-busbar

Improved light utilization and current collection support output and reliability.

Irradiance Response

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

Temperature Coefficient

Strong outdoor generation performance across a wide operating temperature range.

No LeTID / LID

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

High Profitability

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

Electrical specifications

POSN78BI

635-660 W / N-type bifacial photovoltaic module

Electrical properties / STC

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

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

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

Construction & performance

POSN78BI

Mechanical data, operating temperature and reference drawings

Dimensions in mm

Mechanical properties

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

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

Warranty & performance

15 years

Material and workmanship warranty

30 years

Linear power warranty

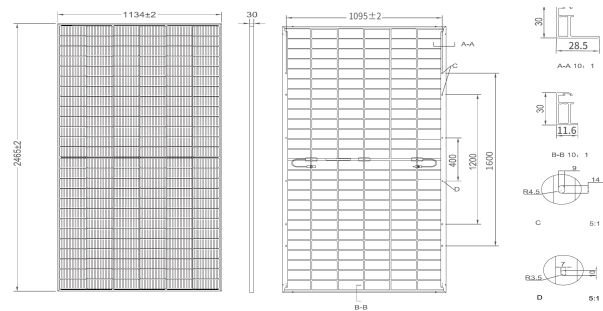
99.0%
87.4%

1.0% first year / 0.4% annual degradation

Year 1

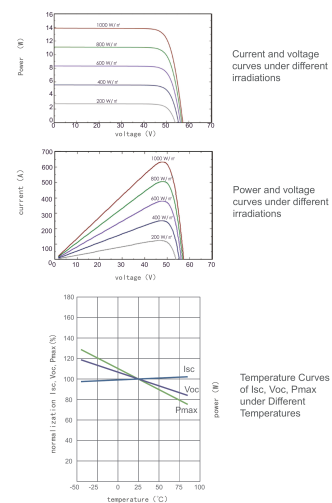
Year 30

Engineering drawings



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

Characteristic curves



Certification & assurance


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

Please read the safety and installation instructions before using this product.