

POSN66BI

600-625 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

625 W

MAXIMUM POWER

23.1%

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

POSN66BI

600-625 W / N-type bifacial photovoltaic module

Electrical properties / STC

Peak power (Pmax/W)	600	605	610	615	620	625
MPP voltage (Vmp/V)	40.54	40.66	40.78	40.92	41.06	41.20
MPP current (Imp/A)	14.80	14.88	14.96	15.03	15.10	15.17
Open-circuit voltage (Voc/V)	48.44	48.64	48.84	49.04	49.24	49.44
Short-circuit current (Isc/A)	15.70	15.78	15.86	15.93	16.00	16.07
Module efficiency (%)	22.2	22.4	22.6	22.8	23.0	23.1

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

Reference-condition electrical data

Peak power (Pmax/W)	456	460	464	468	472	475
MPP voltage (Vmp/V)	38.19	38.36	38.51	38.68	38.85	38.97
MPP current (Imp/A)	11.94	11.99	12.05	12.10	12.15	12.19
Open-circuit voltage (Voc/V)	46.38	46.57	46.76	46.95	47.14	47.33
Short-circuit current (Isc/A)	12.66	12.72	12.79	12.84	12.90	12.95

*NMOT (Nominal Module Operating Temperature Conditions): front 800W/m², ambient temperature 20°C, wind speed 1m/s. The test conditions take the front side as an example.

Operating properties

Operating Temperature (°C)	-40°C~+85°C
Maximum System Voltage (V)	1500V DC (IEC)
Maximum Series Fuse Rating (A)	35A
Power Tolerance	0~+5W
Bifaciality	80%±5%
Static load	Snow load 5400Pa, Wind load 2400Pa
Packaging Configuration	37pcs/pallet, 740pcs/Container

Construction & performance

POSN66BI

Mechanical data, operating temperature and reference drawings

Dimensions in mm

Mechanical properties

Cell Type	n-type half cell
Number of Cells	132pcs(2*66)
Module Dimension	2382mm*1134mm*30mm
Weight	32.8kg
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

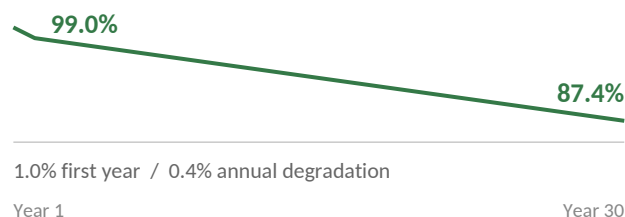
Warranty & performance

15 years

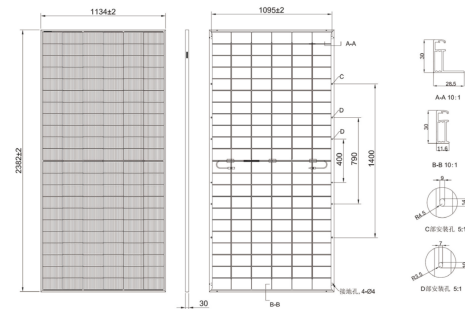
Material and workmanship warranty

30 years

Linear power warranty

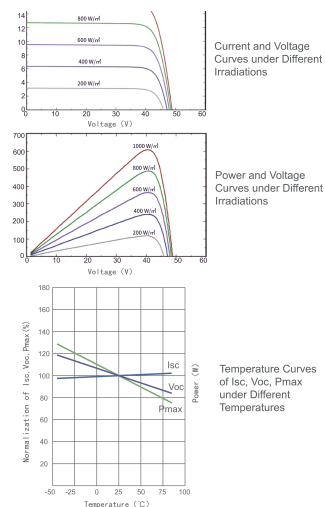


Engineering drawings



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.