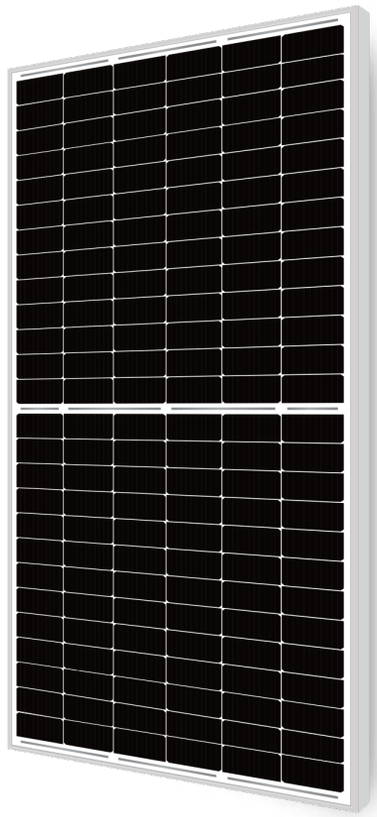
ENERGIE
Sonnex
Brighten the Future

78 Series

TOPCon Dual Glass Bifacial Module



625-650W

NEX Series: SNX-D78HND

23.25%	0~+5w	30 years
Maximum Efficiency	Positive Power Tolerance	Product Warranty

HIGHER VALUE

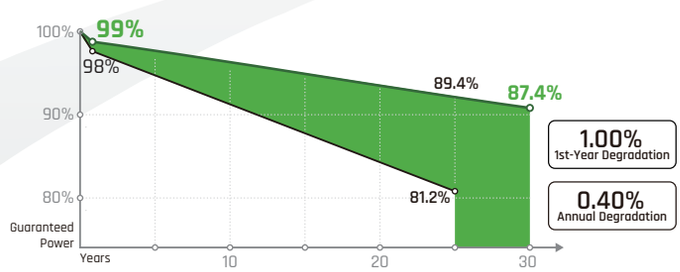
- Longer Warranty terms and lower power degradation
- Lower LCOE for shorter payback period

PFAS FREE

IEC61215(2021), IEC61730(2023)
ISO9001:2015: Quality management systems
ISO14001:2015: Environmental management

HIGHER PERFORMANCE

- Module Power reaches up to 650W by multi-busbar cell design
- Lower resistance performance by half-cell structure
- ZERO LID with additional power generation



Sonnex TOPCon Dual Glass Module Performance Warranty

MORE RELIABLE

- Excellent anti-PID performance
- Lower hot spot risks
- Better temperature coefficient
- Mechanical loading 5400Pa snow load and 2400Pa wind load

Warranty

30 years product workmanship warranty. 30 years linear power output warranty. The power degradation for the first year will be less than 1%. From the 2nd year and onwards, the annual degradation will be less than 0.40%. Guaranteed performance ratio of 87.4% after 30 years.

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625-650W TOPCon Dual Glass MODULE
SNX-D78HND

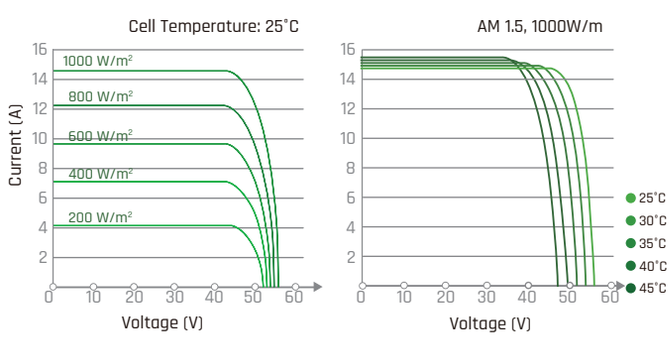
Electrical Characteristics - STC						
Module Type: SNX-D78HND***M	625	630	635	640	645	650
Maximum Power-Pm [W]	625	630	635	640	645	650
Open Circuit Voltage-Voc [V]	55.72	55.86	55.99	56.12	56.25	56.38
Short Circuit Current-Isc [A]	14.27	14.35	14.43	14.51	14.59	14.67
Maximum Power Voltage-Vm [V]	46.10	46.27	46.44	46.61	46.78	46.95
Maximum Power Current-Im [A]	13.56	13.62	13.68	13.71	13.80	13.86
Module Efficiency [%]	22.36	22.54	22.72	22.89	23.07	23.25
Electrical Characteristics - NMOT						
Maximum Power-Pm [W]	462	466	470	474	478	482
Open Circuit Voltage-Voc [V]	52.66	52.79	52.93	53.06	53.18	53.31
Short Circuit Current-Isc [A]	11.39	11.46	11.52	11.58	11.64	11.70
Maximum Power Voltage-Vm [V]	42.46	42.57	42.68	42.79	42.90	43.03
Maximum Power Current-Im [A]	10.89	10.95	11.01	11.07	11.13	11.20

Note: 1. Standard Test Conditions [STC]: Irradiance 1000 W/m²; AM 1.5; Ambient temperature 25°C.
2. Nominal Module Operating Temperature (NMOT): Irradiance 800W/m²; wind speed 1m/s; ambient temperature 20°C.
3. Tolerance of Pm: 0~+5W, Measuring uncertainty of power: ±3%. Performance deviation of Voc [V], Isc [A], Vm [V] and Im [A]: ±3%.

Mechanical Characteristics	
Dimensions	2465×1134×30/35mm
Weight	34kg
Front Glass	AR coating tempered glass 2.0mm
Frame	Anodized aluminum alloy
Cells	TOPCon 182x182mm
Cell Orientation	156 (6×26)
Junction Box	IP68(3 bypass diodes)
Cable/Connectors	4mm² / Stäubli MC4 or EVO2

Temperature Characteristics	
NMOT	42 °C (±2°C)
Temperature Coefficient of Voc	-0.25% /°C
Temperature Coefficient of Isc	+0.045% /°C
Temperature Coefficient of Pm	-0.29% /°C
Maximum Ratings	
Maximum System Voltage [V]	DC 1500(IEC)
Series Fuse Rating [A]	30
Maximum Surface Load Capacity [Pa]	5,400
Temperature Range [°C]	- 45 to + 85
Bifaciality	80% ± 5%
Withstanding Hail	Maximum diameter of 25 mm with impact speed of 23 m/s
Other Characteristics	
Packaging	30 frame: 36pcs/pallet; 576pcs/40' HQ container 35 frame: 31pcs/pallet; 496pcs/40' HQ container

I-V curve



Declaration: Along with the technical improvement and product update, deviation between the technical parameter and Sonnex future products might occur. Specifications included in this datasheet are subject to change without prior notice. Sonnex reserves the right of final interpretation.

Drawing