



VOLT X N-type VXNH585-610N-72-B8 585-610 Watt

BIFACIAL MODULE
Dual Glass
HOT 3.0 Technology

N-Type

Outstanding Visual Appearance

- Lower LCOE (Levelized Cost Of Energy), reduced BOS (Balance of System) cost, shorter payback time
- Lowest guaranteed first year and annual degradation
- Designed for compatibility with existing mainstream system components

Durability Against Extreme Environment

- High salt mist and ammonia resistance.

SMBB Technology

- Better light trapping and current collection to improve module power output and reliability.

Anti-PID Guarantee

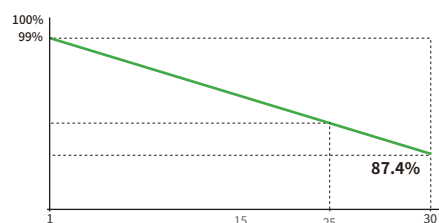
- Minimizes the chance of degradation caused by PID phenomena through optimization of cell production technology and material control.

Ultra-low Degradation, longer warranty, higher output

- First-year degradation 1% and annual degradation at 0.4%
- Up to 25 years product warranty and 30 years power warranty
- Lower temperature coefficient (-0.29 %/°C) and operating temperature

Universal solution for residential and C&I rooftops

- Easy for integration, designed for compatibility with existing mainstream inverters and diverse mounting systems
- Perfect size and low weight for handling and installation
- Most valuable solution on low load capacity rooftops (weight similar to backsheet version)
- Mechanical performance up to 5400 Pa positive load and 4000 Pa negative load



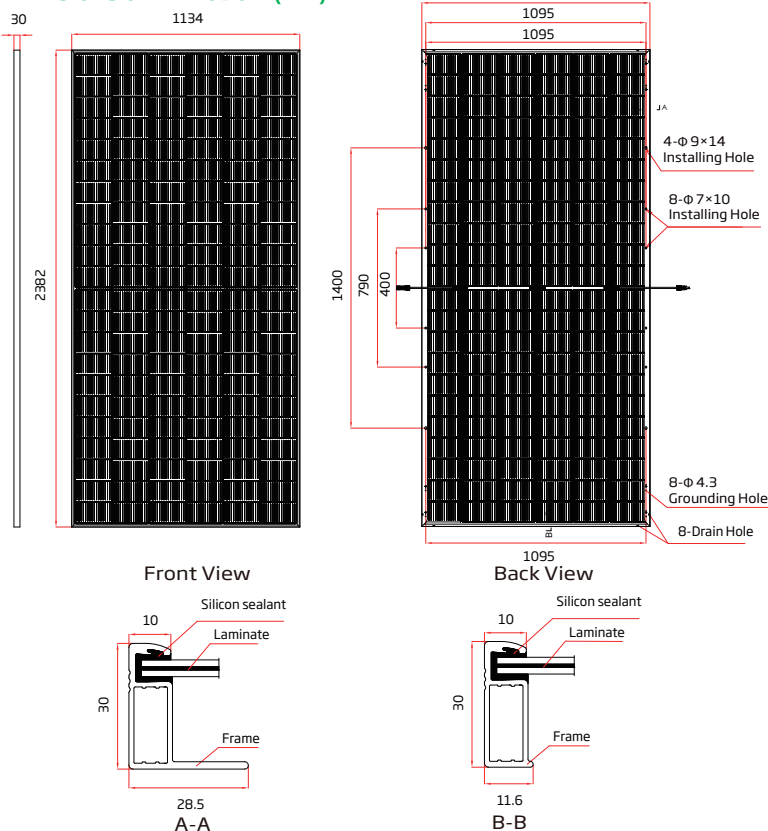
12 Year Product Warranty	30 Year Linear Power Warranty	1% First-year Degradation	0.4% Annual Degradation Over 30 Years
------------------------------------	---	-------------------------------------	---

- IEC61215 (2016) / IEC61730 (2016)
- IEC61701 / IEC62716 / IEC60068 / IEC62804
- ISO9001:2015: Quality Management System
- ISO14001:2015: Environment Management System
- ISO45001:2018: Occupational health and safety management systems

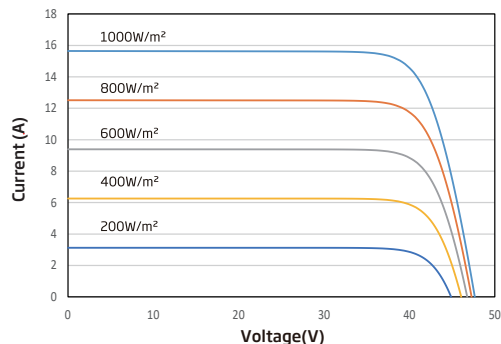


VXNH585-610N-72-B8

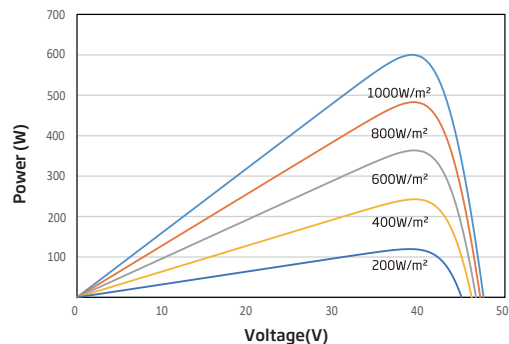
DIMENSIONS OF PV MODULE(mm)



I-V CURVES OF PV MODULE (600 W)



P-V CURVES OF PV MODULE (600 W)



ELECTRICAL DATA (STC)

Peak Power Watts-P _{MAX} (Wp)*	585	590	595	600	605	610
Power Tolerance-P _{MAX} (W)	0 ~ +5					
Maximum Power Voltage-V _{MPP} (V)	39.5	39.7	40.0	40.3	40.5	40.8
Maximum Power Current-I _{MPP} (A)	14.82	14.86	14.89	14.91	14.94	14.96
Open Circuit Voltage-V _{OC} (V)	47.5	47.8	48.1	48.4	48.7	49.0
Short Circuit Current-I _{SC} (A)	15.68	15.72	15.76	15.80	15.83	15.86
Module Efficiency η_m (%)	21.7	21.8	22.0	22.2	22.4	22.6

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM=1.5. *Measuring tolerance: ±3%.

Specifications (NOCT)

Maximum Power-P _{MAX} (Wp)	447	450	454	459	462	466
Maximum Power Voltage-V _{MPP} (V)	37.2	37.4	37.6	37.9	38.1	38.3
Maximum Power Current-I _{MPP} (A)	12.02	12.05	12.07	12.11	12.13	12.16
Open Circuit Voltage-V _{OC} (V)	45.1	45.4	45.7	46.0	46.2	46.5
Short Circuit Current-I _{SC} (A)	12.64	12.67	12.69	12.73	12.75	12.78

NOCT: Irradiance 800W/m², Ambient Temperature 20°C, AM=1.5, Wind Speed 1m/s

MECHANICAL DATA

Solar Cells	Monocrystalline
No. of cells	144 cells
Module Dimensions	2382×1134×30 mm (93.78×44.65×1.18 inches)
Weight	33.7kg (74.3lb)
Front Glass	2.0 mm (0.08 inches), High Transmission, AR Coated Heat Strengthened Glass
Encapsulant material	GLASS POE/EVA
Back Glass	2.0 mm (0.08 inches), Heat Strengthened Glass (White Grid Glass)
Frame	30mm (1.18 inches) Anodized Aluminium Alloy
J-Box	IP 68 rated
Cables	Photovoltaic Technology Cable 4.0mm² (0.006 inches²), Portrait: 350/280 mm (13.78/11.02 inches) Length can be customized
Connector	MC4 EVO2 / TS4 PLUS / TS4*

*Please refer to regional datasheet for specified connector.

TEMPERATURE RATINGS

NOCT (Nominal Operating Cell Temperature)	43°C (±2°C)
Temperature Coefficient of P _{MAX}	-0.29%/°C
Temperature Coefficient of V _{OC}	-0.24%/°C
Temperature Coefficient of I _{SC}	0.04%/°C

MAXIMUM RATINGS

Operational Temperature	-40~+85°C
Maximum System Voltage	1500V DC (IEC)
Max Series Fuse Rating	25A

WARRANTY

12year Product Workmanship c Warran
ty30 year Power Warranty
1% first year degradation
0.4% Annual Power Attenuation

(Please refer to product warranty for details)

PACKAGING CONFIGURATION

Modules per box: 36 pieces
Modules per 40' container: 720 pieces

VXNH585-610N-72-B8



NOTE: Please read the safety and installation manual before using the product. We reserve the right of final interpretation. The specifications in this datasheet are subject to change without notice.