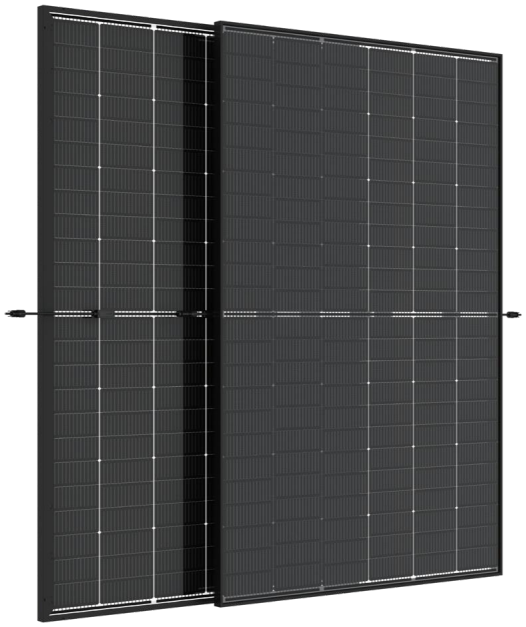
VOLTX SOLAR

https://www.voltxsolar.com



VOLTX N-type
VXNH425-445N-54-B8
410-435 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 rst 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 improvemodule power output andreliability.

Anti-PID Guarantee

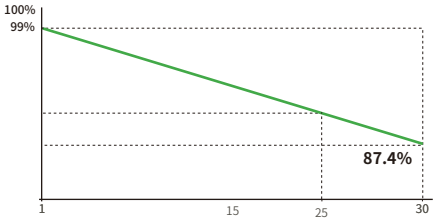
- Minimizes the chance of degradation caused by PID phenomena through optimization of cell production technology and material control.

Ultra-lowDegradation, longer warranty, higher output

- First-year degradation 1% and annual degradation at 0.4%
- Up to 15 years product warranty and 30 years power warranty
- Lower temperature coefficient (-0.29 %/) and operating temperature

Universalsolution for residentialandC&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



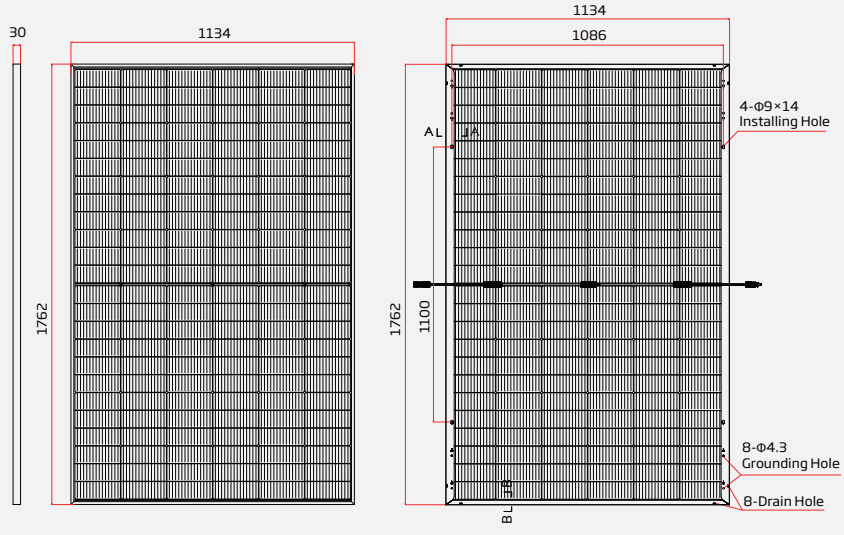
15 Year	30 Year	1%	0.4%
Product Warranty	Linear Power Warranty	First-year Degradation	Annual Degradation Over 30 Years

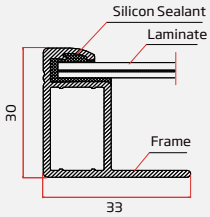
- IEC61215 (2016) / IEC61730 (2016)
- IEC61701 / IEC62716 / IEC60068 / IEC62804
- ISO9001:2015: Quality Management System
- ISO14001:2015: Environment Management System
- ISO45001:2018: Occupational health and safety management systems

CLEAN ENERGY COUNCIL MEMBER

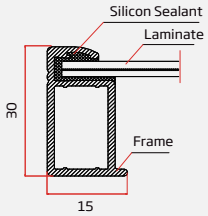
POSITIVE QUALITY™ Continuous Quality Assurance

DIMENSIONS OF PV MODULE(mm)



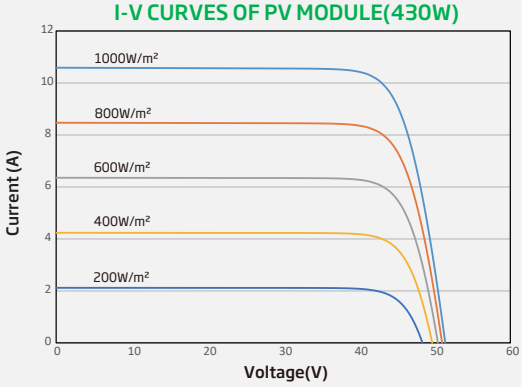


A-A

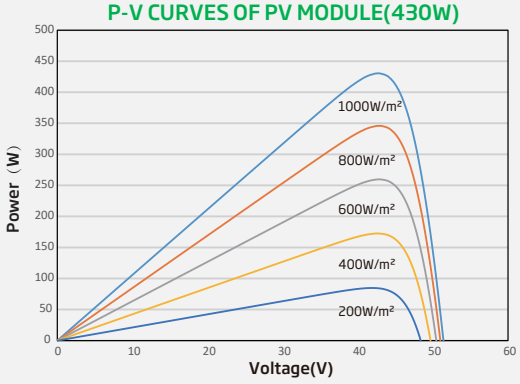


B-B

I-V CURVES OF PV MODULE(430W)



P-V CURVES OF PV MODULE(430W)



ELECTRICAL DATA (STC)

Peak Power Watts-PMAX (Wp)*	425	430	435	440	445
Power Tolerance-PMAX (W)	0 ~ +5				
Maximum Power Voltage-VMPP (V)	42.9	43.2	43.6	44.0	44.3
Maximum Power Current-IMPP (A)	9.92	9.96	9.99	10.01	10.05
Open Circuit Voltage-VOC (V)	50.9	51.4	51.8	52.2	52.6
Short Circuit Current-ISC (A)	10.56	10.59	10.64	10.59	10.71
Module Efficiency η m (%)	21.3	21.5	21.8	22.0	22.3

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

Specifications (NOCT)

Maximum Power-PMAX (Wp)	325	328	332	336	338
Maximum Power Voltage-VMPP (V)	40.0	40.4	40.7	41.0	41.3
Maximum Power Current-IMPP (A)	8.09	8.11	8.15	8.17	8.20
Open Circuit Voltage-VOC (V)	48.3	48.8	49.2	49.5	49.9
Short Circuit Current-ISC (A)	8.51	8.53	8.57	8.60	8.63

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

MECHANICAL DATA

Solar Cells	Monocrystalline
No. of cells	144cells
Module Dimensions	1762×1134×30 mm (69.06×43.15×1.18 inches)
Weight	21.1kg (46.5lb)
Front Glass	1.6 mm (0.06 inches), High Transmission, AR Coated Heat Strengthened Glass
Encapsulant material	EVA/POE
Back Glass	1.6 mm (0.06 inches), High Transmission, Heat Strengthened Glass
Frame	30mm (1.18 inches) Anodized Aluminium Alloy, Black
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*

*Please refer to regional datasheet for specified connector.

TEMPERATURE RATINGS

NOCT(Nominal Operating Cell Temperature)	43°C (±2°C)
Temperature Coefficient of PMAX	- 0.30%/°C
Temperature Coefficient of VOC	- 0.24%/°C
Temperature Coefficient of ISC	0.04%/°C

MAXIMUMRATINGS

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

WARRANTY

15 year Product Workmanship Warranty

30 year Power Warranty

1% first year degradation

0.4% Annual Power Attenuation

(Please refer to product warranty for details)

PACKAGING CONFIGUREATION

Modules per box: 36 pieces

Modules per 40' container: 936 pieces

VXNH425-445N-54-B8

VOLTX SOLAR

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.