



VOLT X N-type VXNH570-590N-72-B8 570-590 Watt

MONO-FACIAL MODULE
SMBB Technology
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

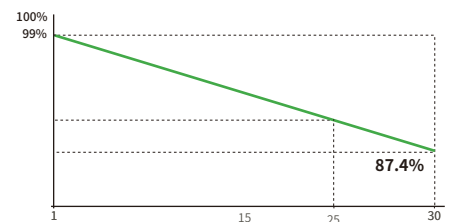
- Minimizes the chance of degradation caused by PID phenomena through optimization of cell production technology and material control.

Ultra-low Degradation, longer warranty, higher output

- First-year degradation 1% and annual degradation at 0.4%
- Up to 12 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



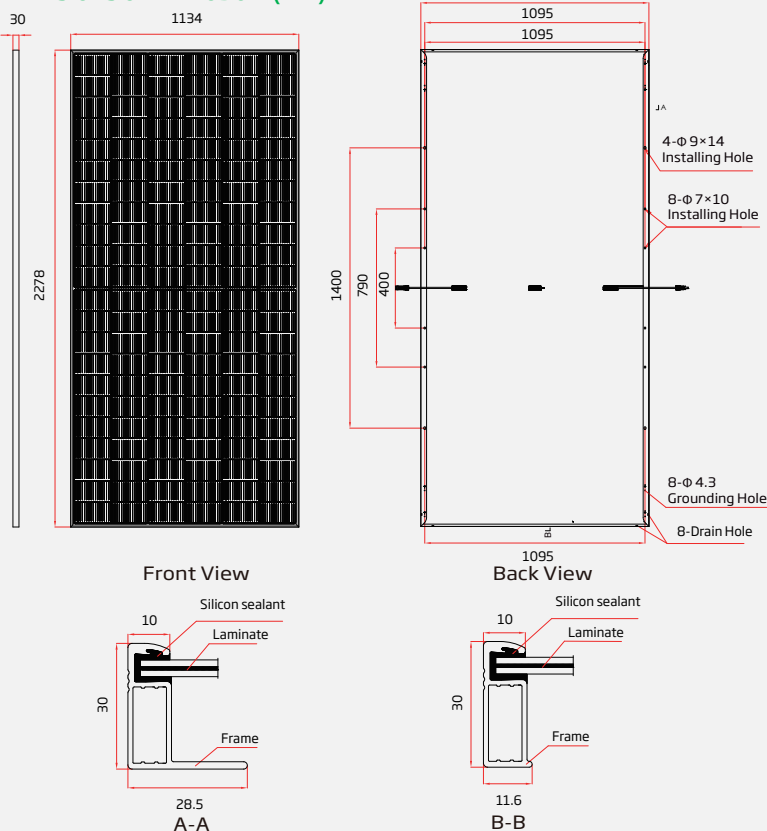
12 Year Product Warranty	30 Year Linear Power Warranty	1% First-year Degradation	0.4% Annual Degradation Over 30 Years
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- IEC61215 (2016) / IEC61730 (2016)
- IEC61701 / IEC62716 / IEC60068 / IEC62804
- ISO9001:2015: Quality Management System
- ISO14001:2015: Environment Management System
- ISO45001:2018: Occupational health and safety management systems

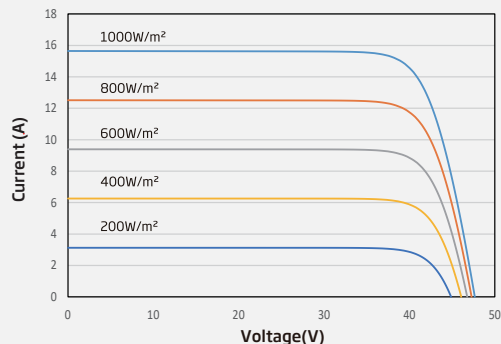


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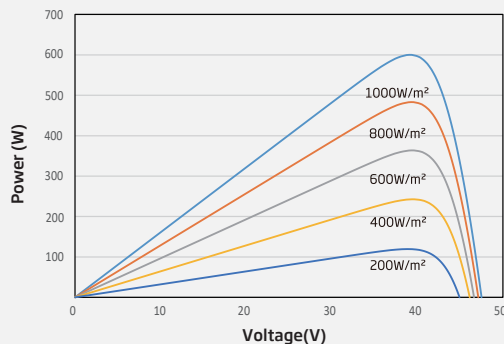
DIMENSIONS OF PV MODULE(mm)



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)*	570	575	580	585	590
Power Tolerance-P _{MAX} (W)	0 ~ +5				
Maximum Power Voltage-V _{MPP} (V)	42.99	43.17	43.35	43.53	43.71
Maximum Power Current-I _{MPP} (A)	13.26	13.32	13.38	13.44	13.50
Open Circuit Voltage-V _{oc} (V)	51.99	52.15	52.31	52.47	52.63
Short Circuit Current-I _{sc} (A)	13.89	13.95	14.01	14.07	14.13
Module Efficiency η _m (%)	22.07	22.26	22.45	22.65	22.84

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

Specifications (NOCT)

Maximum Power-P _{MAX} (Wp)	430	433	437	441	445
Maximum Power Voltage-V _{MPP} (V)	40.37	40.54	40.70	40.86	41.05
Maximum Power Current-I _{MPP} (A)	10.64	10.69	10.74	10.79	10.83
Open Circuit Voltage-V _{oc} (V)	49.38	49.54	49.69	49.84	49.99
Short Circuit Current-I _{sc} (A)	11.21	11.26	11.31	11.36	11.41

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	2278×1134×30 mm (89.69×44.65×1.18 inches)
Weight	27.0kg (59.52 lb)
Front Glass	3.2mm, Anti-Reflection Coating, High Transmission
Encapsulant material	GLASS POE/EVA
Back Glass	None
Frame	30mm (1.18 inches) Anodized Aluminium Alloy
J-Box	IP 68 rated
Cables	Photovoltaic Technology Cable 4.0mm ² (0.006 inches ²), Portrait: 350/280 mm(13.78/11.02 inches) Length can be customized
Connector	MC4 EV02 / 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 Warranty
30 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: 720pieces

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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.