

# VOLT X SOLAR

## VXNH535-555N-72-B8

### 535-555 Watt

BIFACIAL MODULE  
Dual Glass  
HOT 3.0 Technology

#### 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

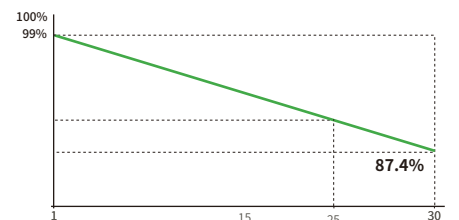
- Minimizes the chance of degradation caused by PID phenomena through optimization of cell production technology and material control.

#### 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



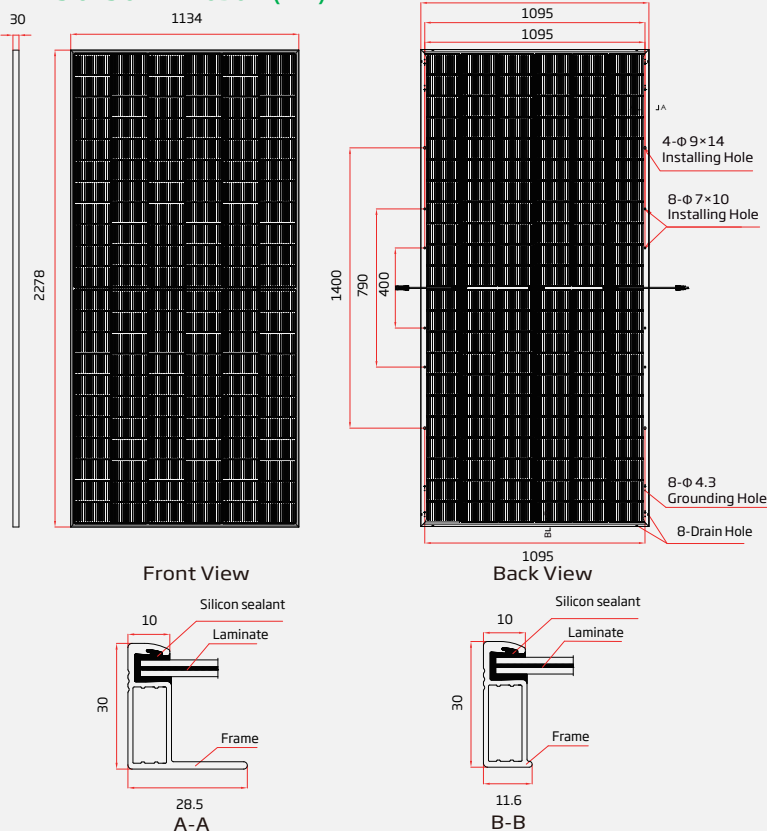
<b>12 Year</b> Product Warranty	<b>30 Year</b> Linear Power Warranty	<b>1%</b> First-year Degradation	<b>0.4%</b> Annual Degradation Over 30 Years
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- IEC61215 (2016) / IEC61730 (2016)
- IEC61701 / IEC62716 / IEC60068 / IEC62804
- ISO9001:2015: Quality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

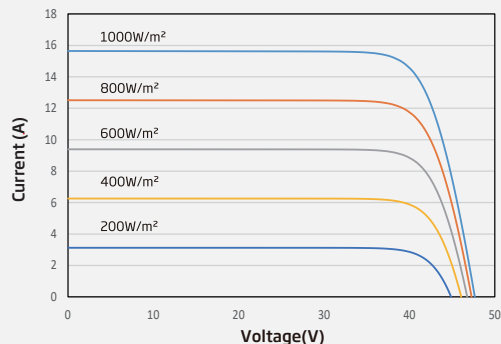


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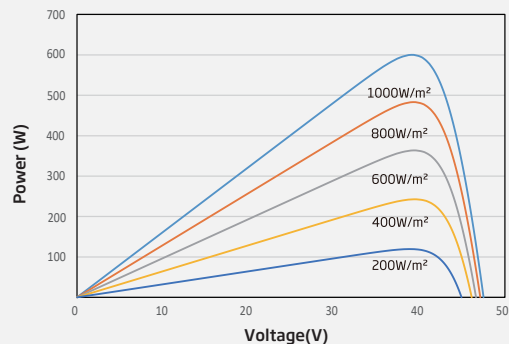
## DIMENSIONS OF PV MODULE(mm)



## I-V CURVES OF PV MODULE ( 600 W)



## P-V CURVES OF PV MODULE ( 600 W)



## ELECTRICAL DATA (STC)

Peak Power Watts-P <sub>MAX</sub> (Wp)*	535	540	545	550	555
Power Tolerance-P <sub>MAX</sub> (W)	0 ~ +5				
Maximum Power Voltage-V <sub>MPP</sub> (V)	40.94	41.13	41.32	41.51	41.70
Maximum Power Current-I <sub>MPP</sub> (A)	13.07	13.13	13.19	13.25	13.31
Open Circuit Voltage-V <sub>OC</sub> (V)	49.54	49.73	49.92	50.11	50.30
Short Circuit Current-I <sub>SC</sub> (A)	13.83	13.89	13.95	14.01	14.07
Module Efficiency η <sub>m</sub> (%)	20.71	20.90	21.10	21.29	21.48

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

## Specifications (NOCT)

Maximum Power-P <sub>MAX</sub> (Wp)	398	402	405	409	413
Maximum Power Voltage-V <sub>MPP</sub> (V)	37.94	38.08	38.25	38.42	38.59
Maximum Power Current-I <sub>MPP</sub> (A)	10.49	10.55	10.60	10.65	10.70
Open Circuit Voltage-V <sub>OC</sub> (V)	46.76	46.94	47.12	47.30	47.48
Short Circuit Current-I <sub>SC</sub> (A)	11.17	11.22	11.27	11.32	11.36

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	31.0kg (68.34 lb)
Front Glass	2.0 mm, Anti-Reflection Coating
Encapsulant material	GLASS POE/EVA
Back Glass	2.0 mm, Heat Strengthened 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 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 <sub>MAX</sub>	-0.29%/°C
Temperature Coefficient of V <sub>OC</sub>	-0.24%/°C
Temperature Coefficient of I <sub>SC</sub>	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: 720 pieces

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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.