

VOLTVISION

VP-N610

- High-performance PV modules for utility power plants
- Advanced HPDC cell technology delivers superior module efficiency and power
- High bifaciality and excellent power temperature coefficient achieves high energy yield
- VoltVision lifecycle quality ensures long-term performance

Complete System and Product Certifications

IEC 61215, IEC 61730, UL 61730

ISO9001:2015: ISO Quality Management System

ISO14001: 2015: ISO Environment Management System

ISO45001: 2018: Occupational Health and Safety

IEC62941: Guideline for module design qualification and type approval



23.1%
MAX MODULE
EFFICIENCY

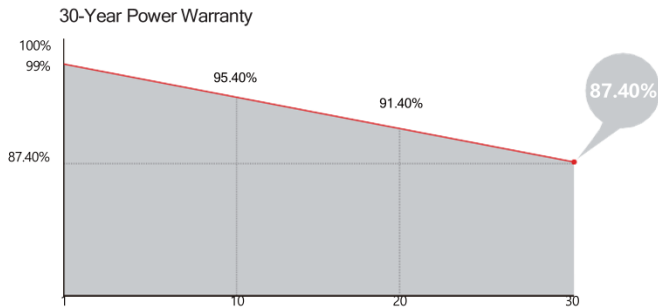
0~3%
POWER
TOLERANCE

<1%
First Year
POWER DEGRADATION

0.4%
YEAR 2-30
POWER DEGRADATION

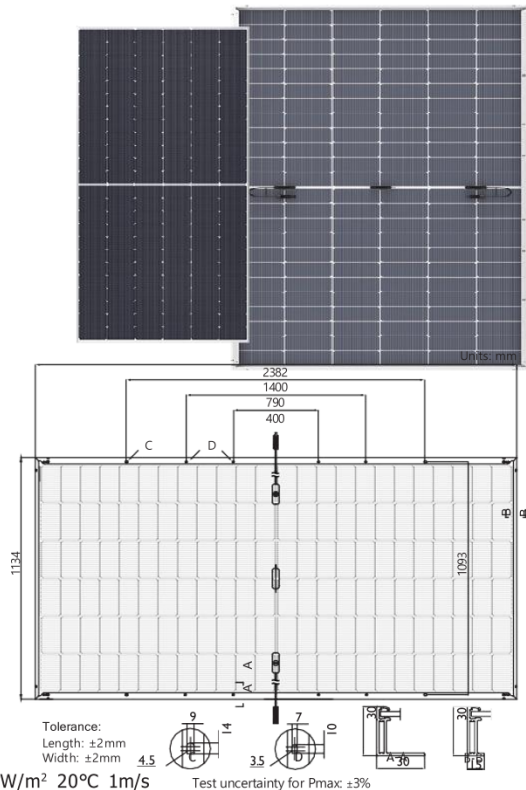
HALF-CELL
Lower operating temperature

Additional Value



Mechanical Parameters

Cell Orientation	144 (6×24)
Junction Box	IP68, three diodes
Output Cable	4mm ² , +400, -200mm/±1400mm length can be customized
Glass	Dual glass, 2.0+2.0mm heat strengthened glass
Frame	Anodized aluminum alloy frame
Weight	33.5kg
Dimension	2382×1134×30mm
Packaging	36pcs per pallet / 144pcs per 20GP / 720pcs per 40 HC



Electrical Characteristics

STC : AM1.5 1000W/m² 25°C

NOCT : AM1.5 800W/m² 20°C 1m/s

Test uncertainty for Pmax: ±3%

Module Type	VP-N610	
Testing Condition	STC	NOCT
Maximum Power (Pmax/W)	610	464.4
Open Circuit Voltage (Voc/V)	52.55	49.94
Short Circuit Current (Isc/A)	14.69	11.80
Voltage at Maximum Power (Vmp/V)	44.11	41.92
Current at Maximum Power (Imp/A)	13.83	11.08
Module Efficiency(%)	22.6	

Electrical characteristics with different rear side power gain (reference to 610W front)

Pmax /W	Voc/V	Isc /A	Vmp/V	Imp /A	Pmax gain
646	52.66	15.51	44.22	14.60	5%
677	52.66	16.25	44.22	15.30	10%
709	52.76	16.98	44.32	15.99	15%
740	52.76	17.72	44.32	16.69	20%
770	52.76	18.46	44.32	17.38	25%

Operating Parameters

Operational Temperature	-40°C ~ +85°C
Power Output Tolerance	0 ~ 3%
Maximum System Voltage	DC1500V (IEC/UL)
Maximum Series Fuse Rating	30A
Nominal Operating Cell Temperature	45±2°C
Protection Class	Class II
Bifaciality	80±5%
Fire Rating	UL type 29 IEC Class C

Mechanical Loading

Front Side Maximum Static Loading	5400Pa
Rear Side Maximum Static Loading	2400Pa
Hailstone Test	25mm Hailstone at the speed of 23m/s

Temperature Ratings (STC)

Temperature Coefficient of Isc	+0.045%/°C
Temperature Coefficient of Voc	-0.230%/°C
Temperature Coefficient of Pmax	-0.280%/°C



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