



SKYMAX^{series} VL-630W-182M/156T

N-TOPCon
Monocrystalline Module

2465 × 1134 × 35 **182 × 91**
Module dimensions (mm) Cell size (mm)

156 CELL **610-630Wp**
Mono TOPCon module Power output

1500V DC **22.54%**
Max. system voltage Max. efficiency



KEY FEATURES

- Higher Power Output**
Module power increases by 5-25% generally, bringing significantly lower LCOE and higher IRR. 0-5w positive tolerance output warranty.
- Optimal Choice for Ultra-large Power Plants**
Contribute to Lower BOS cost and LCOE.
- ZERO LID**
N-Type cell is characterized by "0" LID, which generates more power
- PID Resistance**
Excellent Anti-PID performance guarantee via optimized mass-production process and material control.
- Durability Against Extreme Environmental Conditions**
High salt mist and ammonia resistance certified by TUV NORD. Lower temperature coefficient and operating temperature.
- More Outstanding Low-light Performance**
Higher power output even under low-light environments like on cloudy days
- Enhanced Mechanical Load**
Certified to withstand: wind load (2400 Pa) and snow load (5400 Pa).
- 2 EL Full Inspection**
Dual stage 100% EL Inspection warranting defect-free product.

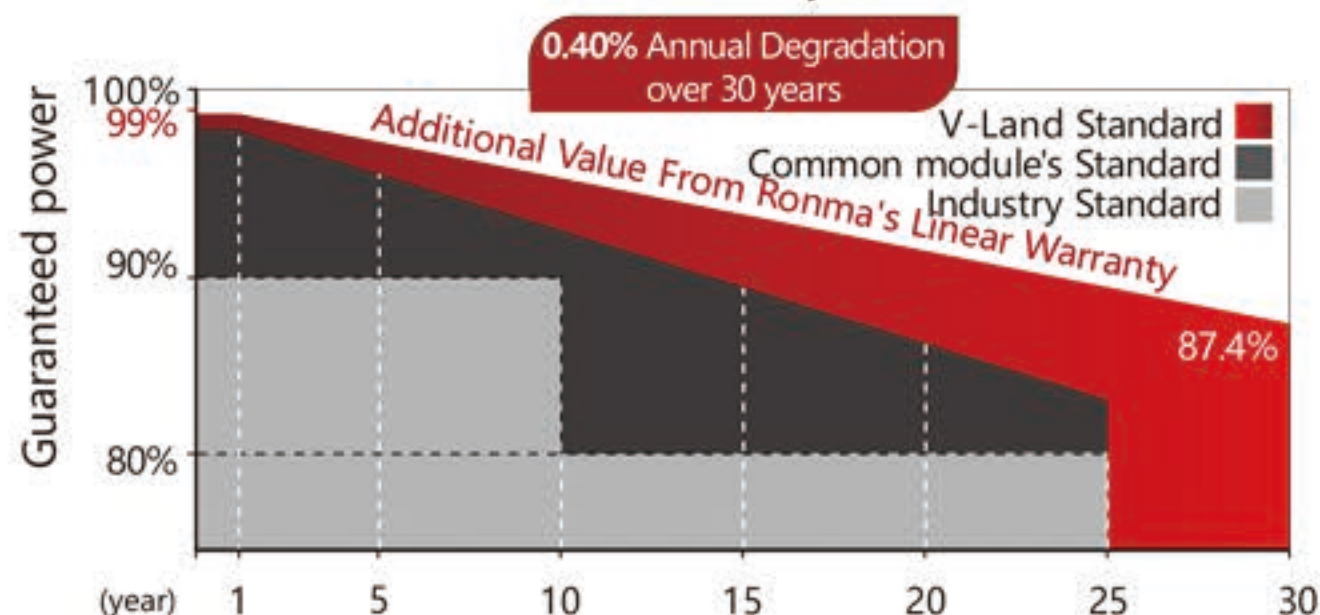


Comprehensive Products and System Certificates

- IEC61215/IEC61730/IEC61701/IEC62716
- ISO 9001: Quality Management System
- ISO 14001: Environmental Management System
- ISO14064: Greenhouse Gases Emissions Verification
- OHSAS 18001: Occupational Health and Safety Management System

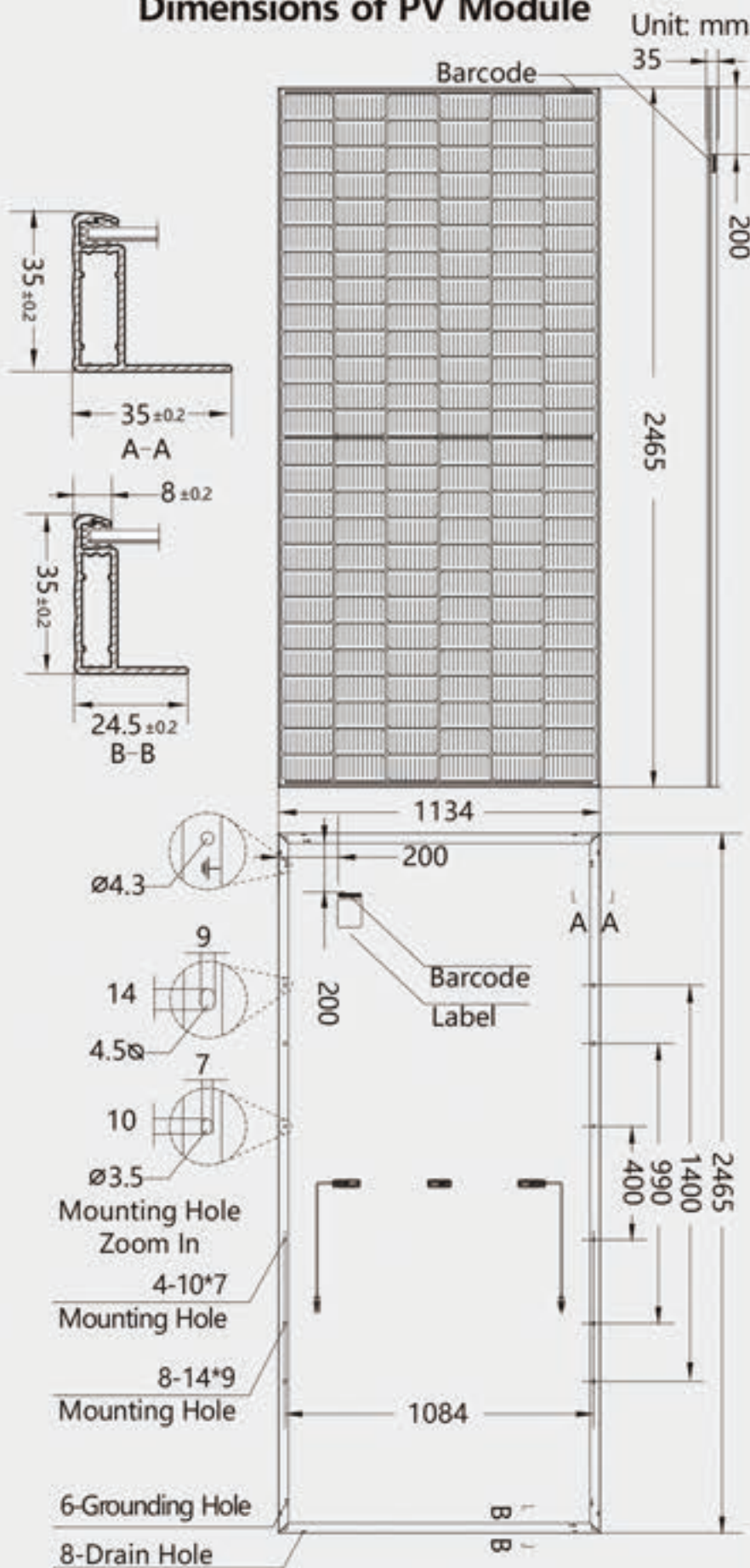
LINEAR PERFORMANCE WARRANTY

12-year product warranty / 25-year linear power warranty





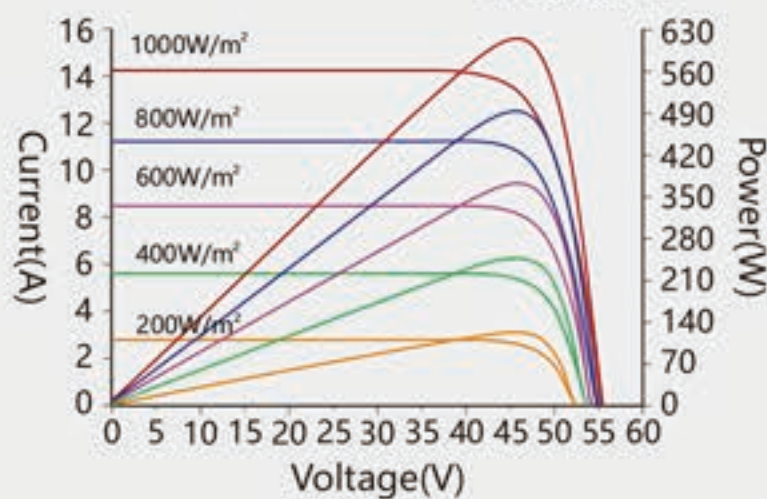
Dimensions of PV Module



VL-620W-182M/156T

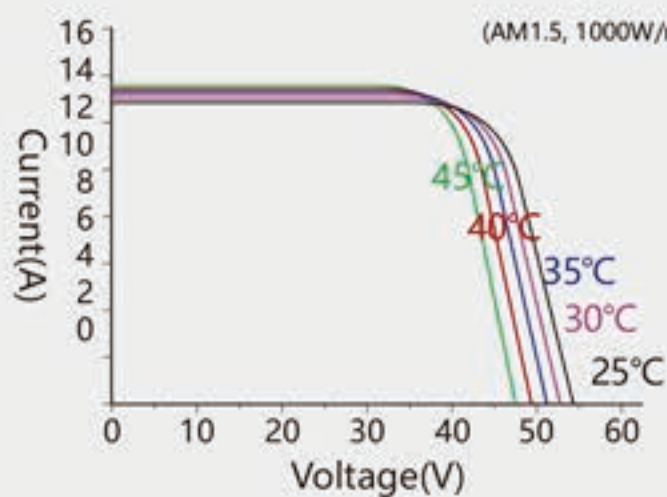
I-V characteristics at different irradiances

Cells temp.=25°C



I-V characteristics at different temperatures

(AM1.5, 1000W/m²)



ELECTRICAL CHARACTERISTICS (STC*)

Model Number	VL-610W-182M/156T	VL-615W-182M/156T	VL-620W-182M/156T	VL-625W-182M/156T	VL-630W-182M/156T
Rated Power in Watts-Pmax(Wp)	610	615	620	625	630
Open Circuit Voltage-Voc(V)	55.25	55.40	55.55	55.70	55.85
Short Circuit Current-Isc(A)	14.11	14.18	14.25	14.32	14.39
Max. Power Voltage-Vmpp(V)	45.59	45.69	45.79	45.92	46.02
Max. Power Current-Impp(A)	13.38	13.46	13.54	13.61	13.69
Module Efficiency(%)	21.81	21.99	22.17	22.35	22.53
Maximum system voltage	1500V DC				
Fuse Rating(A)	25				
Temperature coefficient Pmax	-0.30%/°C				
Temperature coefficient Isc	0.046%/°C				
Temperature coefficient Voc	-0.25%/°C				

*STC: Irradiance 1000W/m², module temperature 25°C, AM=1.5

WORKING CHARACTERISTICS (NOCT*)

Model Number	VL-610W-182M/156T	VL-615W-182M/156T	VL-620W-182M/156T	VL-625W-182M/156T	VL-630W-182M/156T
Rated Power in Watts-Pmax(Wp)	459	462	466	470	474
Open Circuit Voltage-Voc(V)	52.48	52.62	52.77	52.91	53.05
Short Circuit Current-Isc(A)	11.39	11.45	11.50	11.56	11.62
Max. Power Voltage-Vmpp(V)	42.28	42.39	42.50	42.61	42.72
Max. Power Current-Impp(A)	10.85	10.91	10.97	11.03	11.09
Power tolerance	0~+3%				
NOCT	45°C±2°C				
Operating Temperature	-40°C~85°C				

*NOCT: Irradiance 800W/m², ambient temperature 20°C, wind speed 1m/s

MECHANICAL CHARACTERISTICS

Number of cells	156pcs
Size of cell(mm)	182×91
Type of cell	N-TOPCon Mono
Thickness of glass(mm)	3.2
Junction box	IP68
Type of frame	Anodized Aluminum Alloy, Black/Silver Color.
Size of module(mm)	2465×1134×35
Weight(kg)	31
Cables/connectors	4.0mm², MC4 compatible
Length of Cable	+300mm/-300mm (connector included)

PACKAGING CONFIGURATION

	40ft (HQ)
Number of Modules Per Container	496
Number of Modules Per Pallet	31
Number of Pallets Per Container	16
Packaging Box Dimensions (l×w×h) (mm)	2485×1120×1260
Box Gross Weight (kg)	987