



# SKYMAX<sup>series</sup> VL-430W-182M/108T

**N-TOPCon**  
Full Black Monocrystalline Module

**1722×1134×35**

Module dimensions (mm)

**182×91**

Cell size (mm)

**108CELL**

Mono TOPCon module

**410-430Wp**

Power output

**1500V DC**

Max. system voltage

**22.02%**

Max. efficiency



## KEY FEATURES



**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).



**EL Full Inspection**  
Dual stage 100% EL Inspection warranting defect-free product.

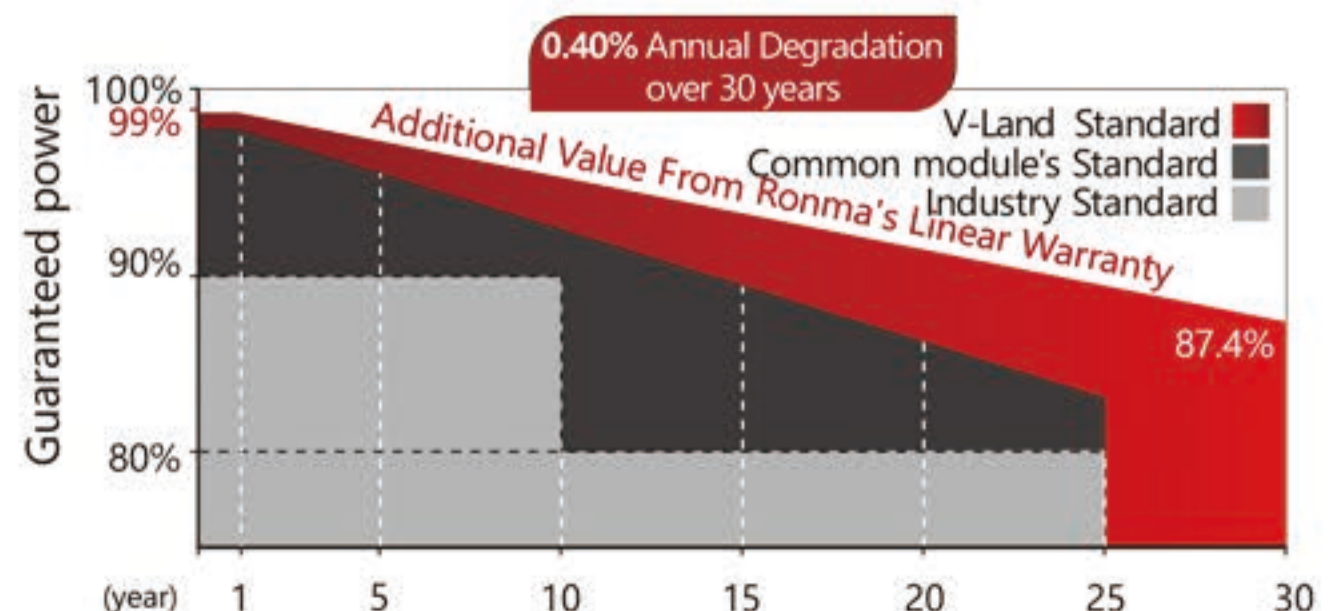


### Comprehensive Products and System Certificates

- 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

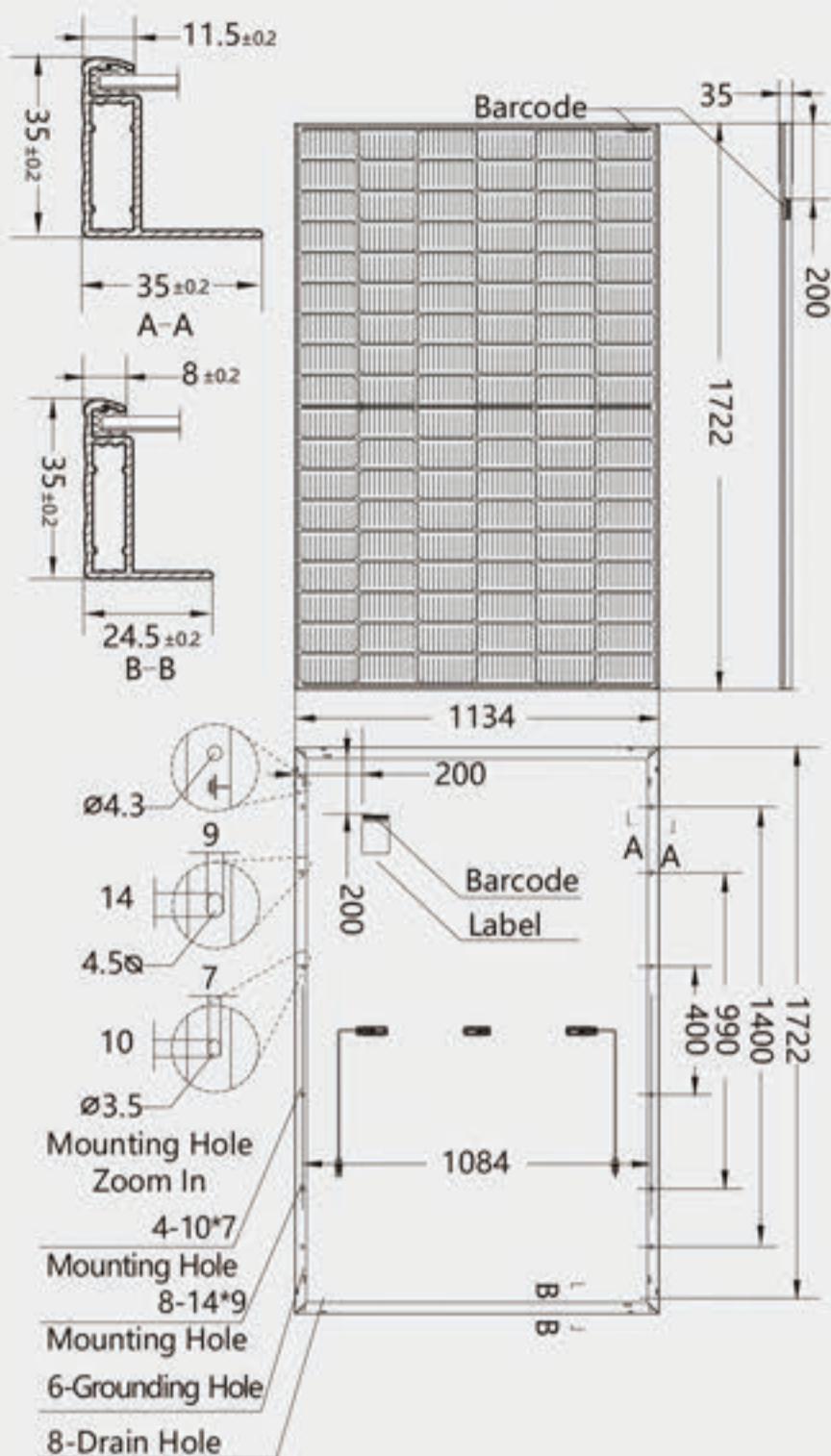
12-year product warranty / 30-year linear power warranty





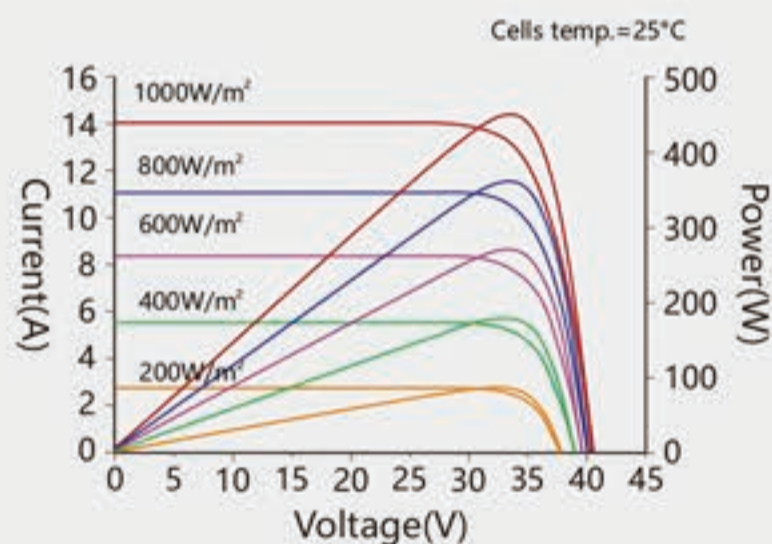
Dimensions of PV Module

Unit: mm

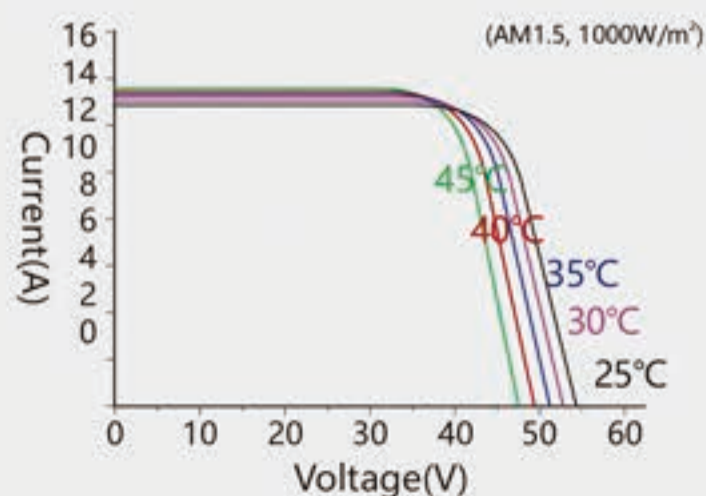


VL-430W-182M/108T

I-V characteristics at different irradiances



I-V characteristics at different temperatures



ELECTRICAL CHARACTERISTICS (STC\*)

Model Number	VL-410W-182M/108T	VL-415W-182M/108T	VL-420W-182M/108T	VL-425W-182M/108T	VL-430W-182M/108T
Rated Power in Watts-Pmax(Wp)	410	415	430	425	430
Open Circuit Voltage-Voc(V)	37.73	37.92	38.11	38.30	38.49
Short Circuit Current-Isc(A)	13.91	13.99	14.07	14.15	14.23
Max. Power Voltage-Vmpp(V)	31.13	31.32	31.51	31.70	31.88
Max. Power Current-Imp(A)	13.17	13.25	13.33	13.41	13.49
Module Efficiency(%)	21.00	21.25	21.51	21.76	22.02
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/m<sup>2</sup>, module temperature 25°C, AM=1.5

WORKING CHARACTERISTICS (NOCT\*)

Model Number	VL-410W-182M/108T	VL-415W-182M/108T	VL-420W-182M/108T	VL-425W-182M/108T	VL-430W-182M/108T
Rated Power in Watts-Pmax(Wp)	316	320	323	327	331
Open Circuit Voltage-Voc(V)	36.80	37.00	37.20	37.39	37.59
Short Circuit Current-Isc(A)	10.91	10.96	11.02	11.08	11.14
Max. Power Voltage-Vmpp(V)	29.95	30.19	30.30	30.50	30.73
Max. Power Current-Imp(A)	10.55	10.60	10.66	10.72	10.77
Power tolerance	0~+3%				
NOCT	45°C±2°C				
Operating Temperature	-40°C~85°C				

\*NOCT: Irradiance 800W/m<sup>2</sup>, ambient temperature 20°C, wind speed 1m/s

MECHANICAL CHARACTERISTICS

Number of cells	108pcs
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 Color.
Size of module(mm)	1722×1134×35
Weight(kg)	22
Cables/connectors	4.0mm <sup>2</sup> , MC4 compatible
Length of Cable	+300mm/-300mm (connector included)

PACKAGING CONFIGURATION

	40ft (HQ)
Number of Modules Per Container	806
Number of Modules Per Pallet	31
Number of Pallets Per Container	26
Packaging Box Dimensions (l×w×h) (mm)	1750×1120×1260
Box Gross Weight (kg)	691