



SKYMAX^{series} VL-445W-182M/108T

N-TOPCon
Monocrystalline Module

1722×1134×35

Module dimensions (mm)

182×91

Cell size (mm)

108CELL

Mono TOPCon module

425-445Wp

Power output

1500V DC

Max. system voltage

22.00%

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

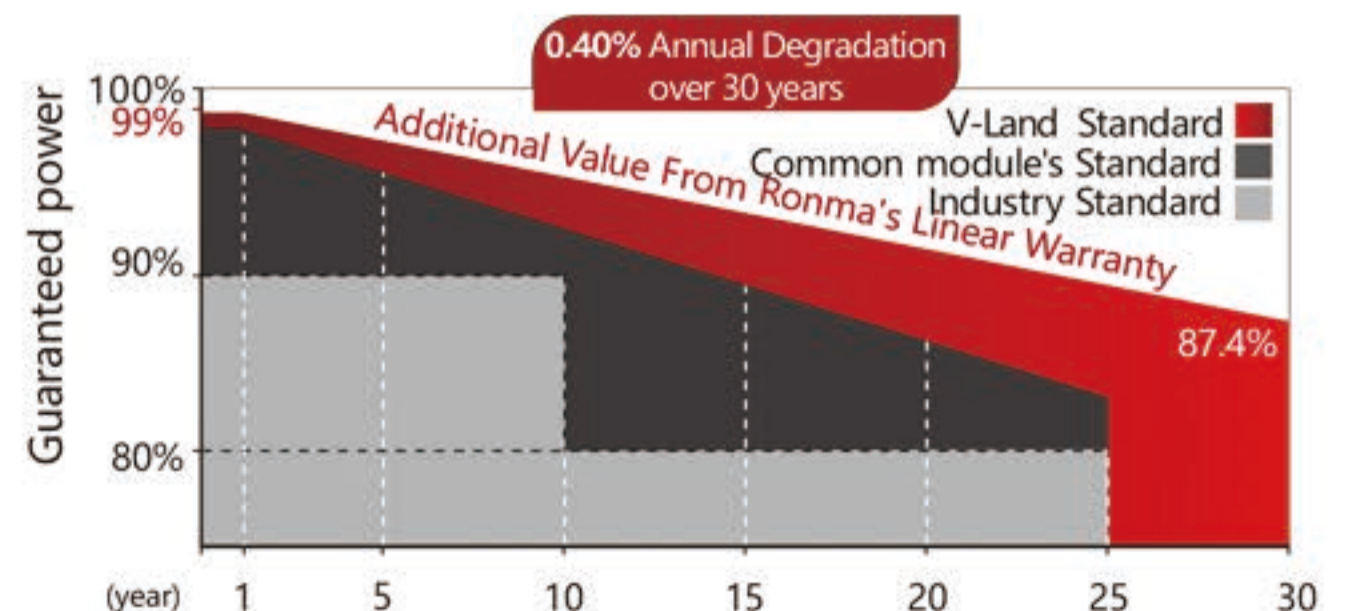
ISO 14001: Environmental Management System

ISO14064: Greenhouse Gases Emissions Verification

OHSAS 18001: Occupational Health and Safety Management System

LINEAR PERFORMANCE WARRANTY

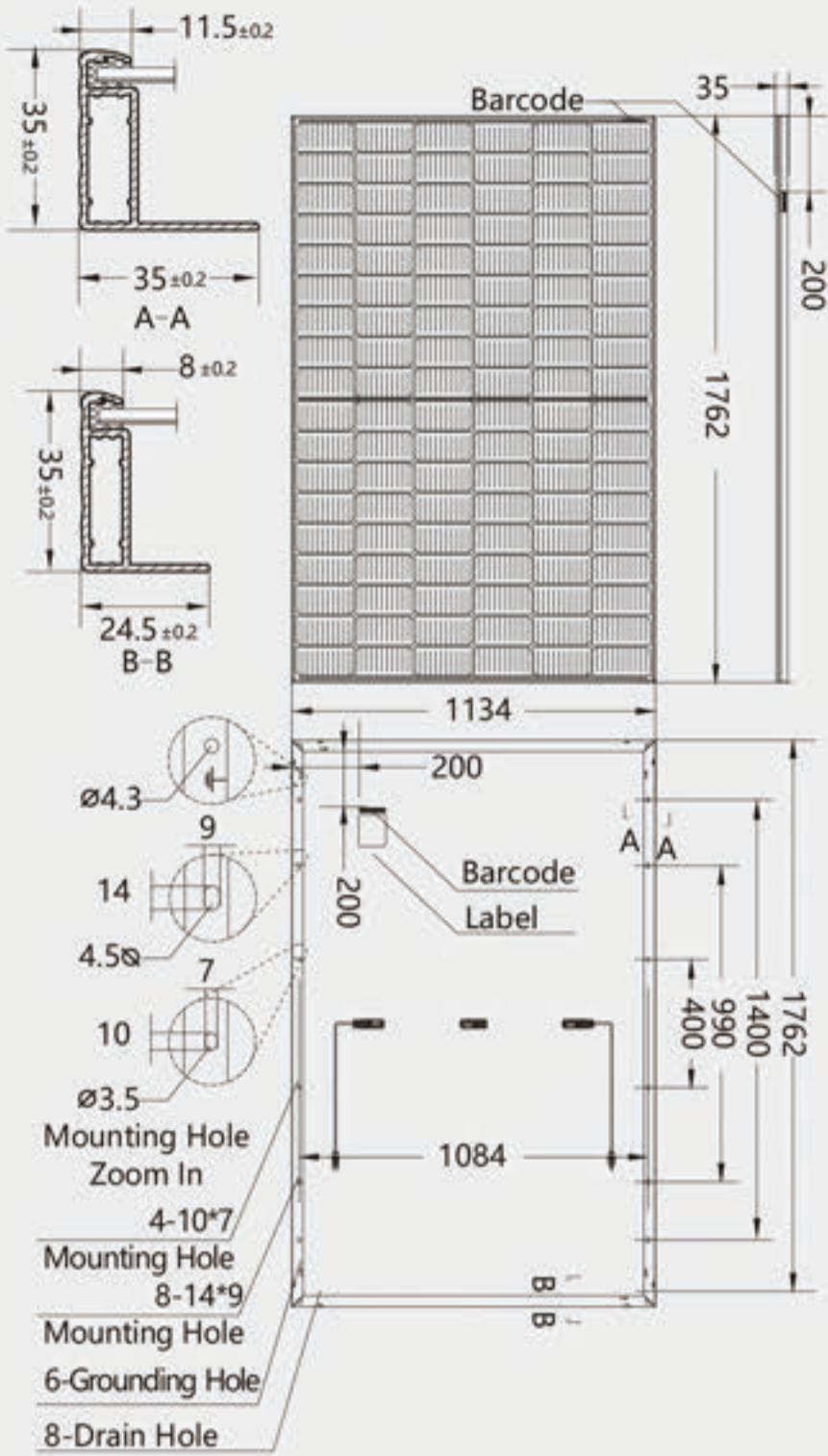
12-year product warranty / 30-year linear power warranty





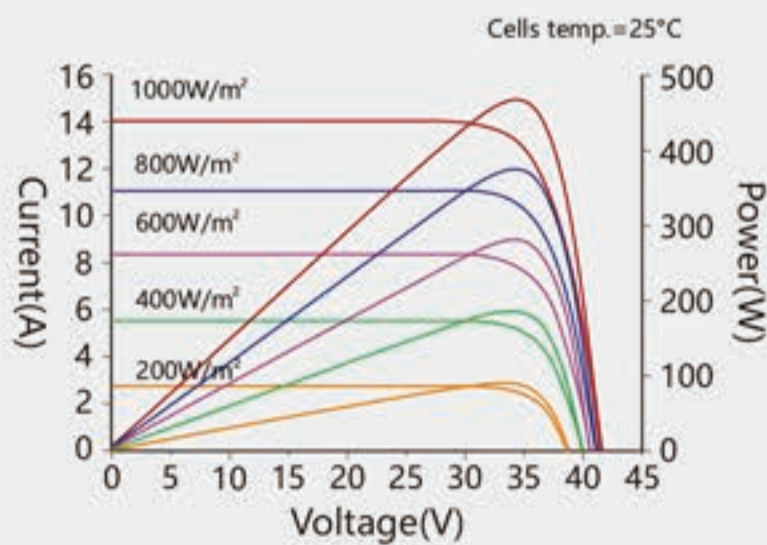
Dimensions of PV Module

Unit: mm

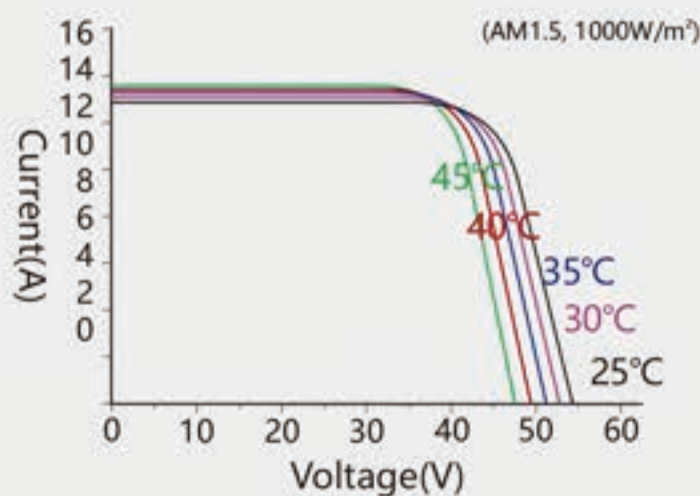


VL-435W-182M/108T

I-V characteristics at different irradiances



I-V characteristics at different temperatures



ELECTRICAL CHARACTERISTICS (STC*)

Model Number	VL-425W-182M/108T	VL-430W-182M/108T	VL-435W-182M/108T	VL-440W-182M/108T	VL-445W-182M/108T
Rated Power in Watts-Pmax(Wp)	425	430	435	440	445
Open Circuit Voltage-Voc(V)	38.75	38.95	39.16	39.38	39.59
Short Circuit Current-Isc(A)	13.66	13.73	13.80	13.86	13.93
Max. Power Voltage-Vmpp(V)	32.18	32.38	32.59	32.81	33.02
Max. Power Current-Imp(A)	13.21	13.28	13.35	13.41	13.48
Module Efficiency(%)	21.27	21.52	21.77	22.02	22.27
Maximum system voltage	1500V DC				
Fuse Rating(A)	25				
Temperature coefficient Pmax	-0.29%/°C				
Temperature coefficient Isc	0.045%/°C				
Temperature coefficient Voc	-0.25%/°C				

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

WORKING CHARACTERISTICS (NOCT*)

Model Number	VL-425W-182M/108T	VL-430W-182M/108T	VL-435W-182M/108T	VL-440W-182M/108T	VL-445W-182M/108T
Rated Power in Watts-Pmax(Wp)	320	323	327	331	335
Open Circuit Voltage-Voc(V)	36.81	37.00	37.20	37.41	37.61
Short Circuit Current-Isc(A)	11.03	11.09	11.14	11.19	11.25
Max. Power Voltage-Vmpp(V)	29.99	30.10	30.33	30.56	30.76
Max. Power Current-Imp(A)	10.67	10.73	10.78	10.83	10.89
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	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, Silver/Black Color
Size of module(mm)	1762×1134×35
Weight(kg)	22
Cables/connectors	4.0mm², 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)	706