



SKYMAX^{series} VL-585W-182M/144T

N-TOPCon
Monocrystalline Module

2279×1134×35

Module dimensions (mm)

182×91

Cell size (mm)

144 CELL

Mono TOPCon module

565-585Wp

Power output

1500V DC

Max. system voltage

22.64%

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
••• 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.

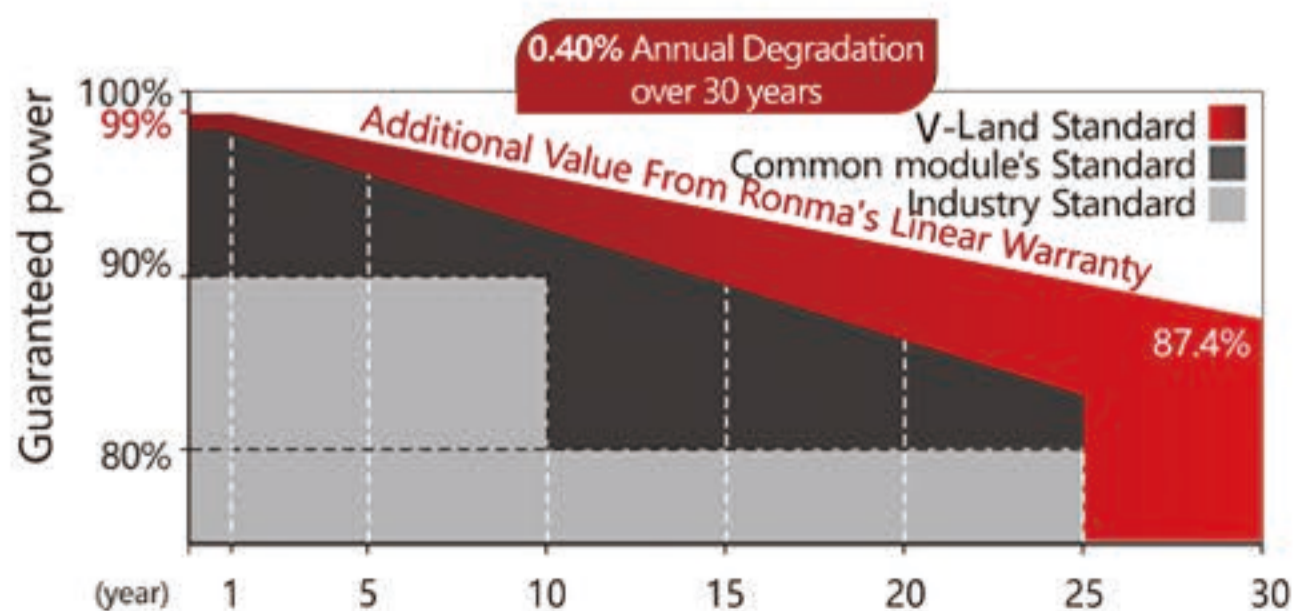


Comprehensive Products and System Certificates

- 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

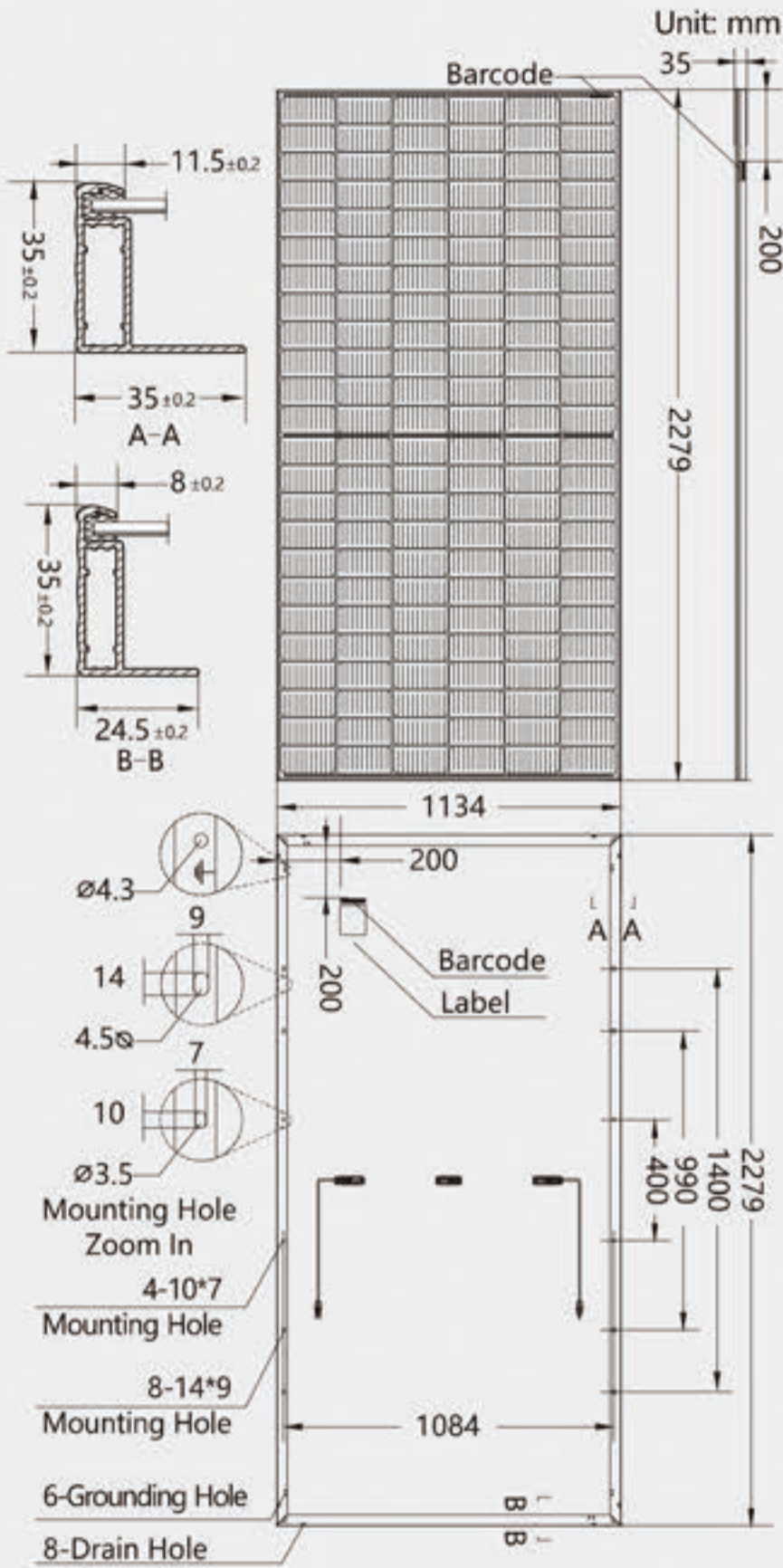
LINEAR PERFORMANCE WARRANTY

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



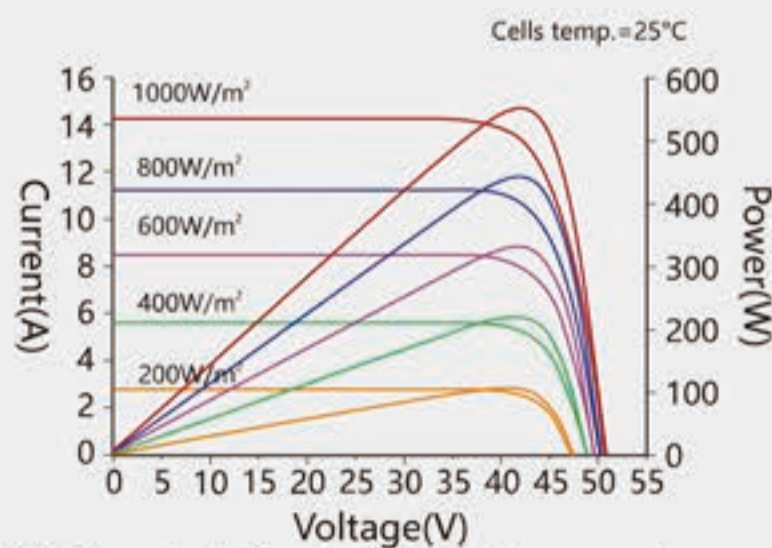


Dimensions of PV Module

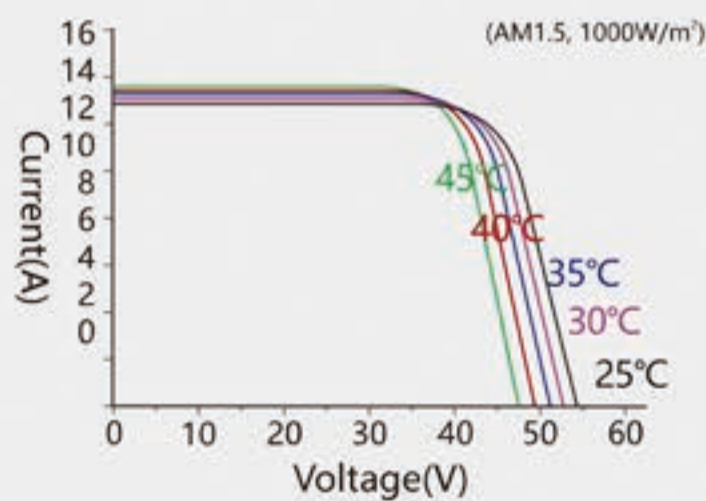


VL-575W-182M/144T

I-V characteristics at different irradiances



I-V characteristics at different temperatures



ELECTRICAL CHARACTERISTICS (STC*)

| Model Number | VL-565W-182M/144T | VL-570W-182M/144T | VL-575W-182M/144T | VL-580W-182M/144T | VL-585W-182M/144T |
|-------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Rated Power in Watts-Pmax(Wp) | 565 | 570 | 575 | 580 | 585 |
| Open Circuit Voltage-Voc(V) | 50.60 | 50.74 | 50.88 | 51.02 | 51.16 |
| Short Circuit Current-Isc(A) | 14.23 | 14.31 | 14.39 | 14.47 | 14.55 |
| Max. Power Voltage-Vmpp(V) | 41.92 | 42.07 | 42.22 | 42.37 | 42.52 |
| Max. Power Current-Impp(A) | 13.46 | 13.55 | 13.62 | 13.69 | 13.76 |
| Module Efficiency(%) | 21.86 | 22.06 | 22.25 | 22.44 | 22.64 |
| 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-565W-182M/144T | VL-570W-182M/144T | VL-575W-182M/144T | VL-580W-182M/144T | VL-585W-182M/144T |
|-------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Rated Power in Watts-Pmax(Wp) | 425 | 429 | 432 | 436 | 440 |
| Open Circuit Voltage-Voc(V) | 48.06 | 48.20 | 48.33 | 48.46 | 48.60 |
| Short Circuit Current-Isc(A) | 11.49 | 11.55 | 11.62 | 11.68 | 11.75 |
| Max. Power Voltage-Vmpp(V) | 39.38 | 39.51 | 39.60 | 39.69 | 39.81 |
| Max. Power Current-Impp(A) | 10.79 | 10.85 | 10.92 | 10.99 | 11.05 |
| 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 | 144pcs |
| 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 |
| Size of module(mm) | 2279×1134×35 |
| Weight(kg) | 28.6 |
| Cables/connectors | 4.0mm ² , MC4 compatible |
| Length of Cable | +300mm/-300mm (connector included) |

PACKAGING CONFIGURATION

| | |
|---------------------------------------|----------------|
| | 40ft (HQ) |
| Number of Modules Per Container | 620 |
| Number of Modules Per Pallet | 31 |
| Number of Pallets Per Container | 20 |
| Packaging Box Dimensions (l×w×h) (mm) | 2300×1120×1260 |
| Box Gross Weight (kg) | 916 |