



# SKYMAX<sup>series</sup> VL-595W-182M/156

Monocrystalline PERC Module

**2465×1134×35/30**    **182×91**

Module dimensions (mm)    Cell size (mm)

**156 CELL**    **565-595Wp**

Mono PERC module    Power output

**1500V DC**    **21.29%**

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.
- Most Advanced Production Technologies**  
Optimize module current profile, improve system-side power generation.
- Multi Busbar Technology**  
By improving optical utilization rate, power increases by 2~3% and efficiency increases by 0.4~0.6%.
- PID Resistance**  
Excellent Anti-PID performance guarantee via optimized mass-production process and material control.
- Low-light Performance**  
Excellent performance in low light.
- Enhanced Mechanical Load**  
Certified to withstand: wind load (2400 Pa) and snow load (5400 Pa).
- Durability Against Extreme Environmental Conditions**  
High salt mist and ammonia resistance certified by TUV NORD.
- 2 EL Full Inspection**  
Dual stage 100% EL Inspection warranting defect-free product.

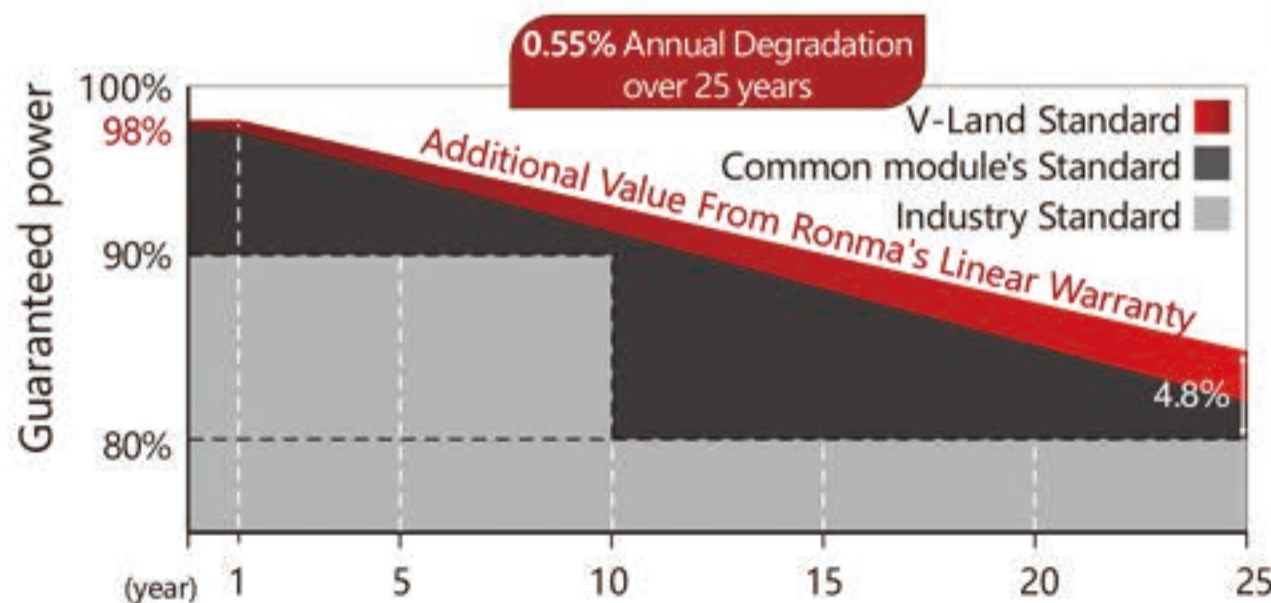


### Comprehensive Products and System Certificates

- 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

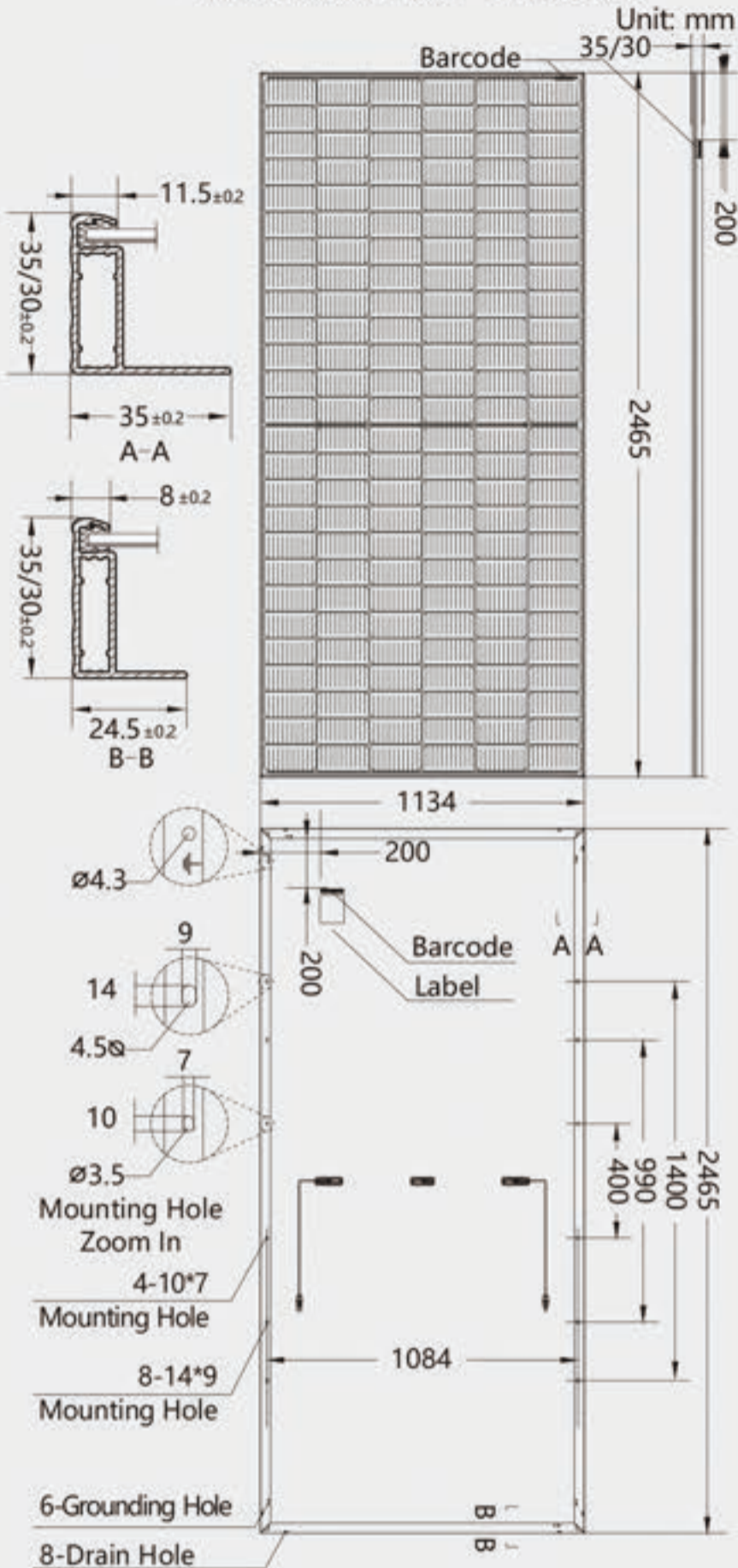
12-year product warranty / 25-year linear power warranty





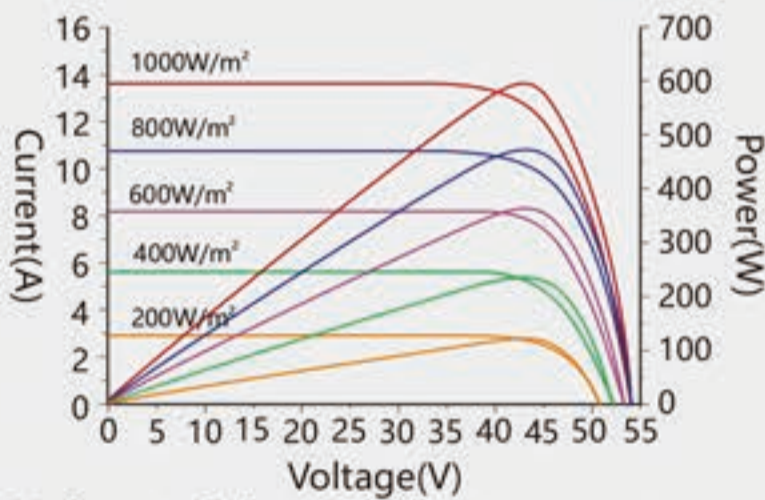


Dimensions of PV Module

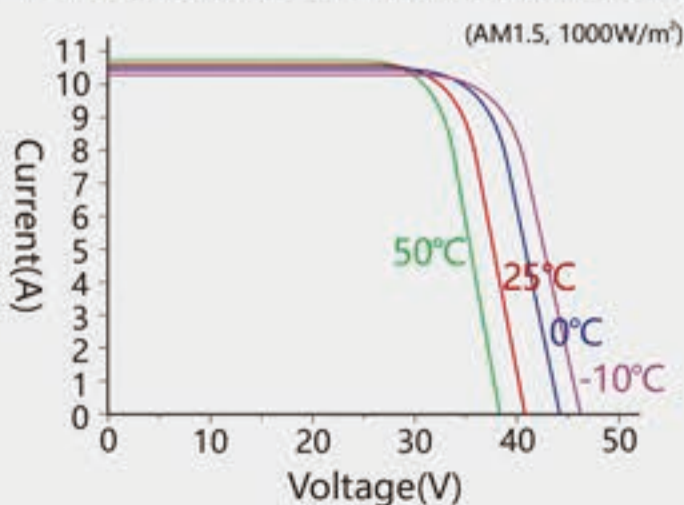


VL-585W-182M/156

I-V characteristics at different irradiances  
Cells temp.=25°C



I-V characteristics at different temperatures  
(AM1.5, 1000W/m²)



ELECTRICAL DATA(STC)

Model Number	VL-560W-182M/156	VL-565W-182M/156	VL-570W-182M/156	VL-575W-182M/156	VL-580W-182M/156	VL-585W-182M/156	VL-590W-182M/156
Rated Power in Watts-Pmax(Wp)	565	570	575	580	585	590	595
Open Circuit Voltage-Voc(V)	53.00	53.25	53.50	53.75	54.00	54.20	54.40
Short Circuit Current-Isc(A)	13.53	13.58	13.63	13.68	13.73	13.80	13.88
Max. Power Voltage-Vmpp(V)	44.25	44.50	44.70	44.90	45.15	45.30	45.45
Max. Power Current-Impp(A)	12.77	12.82	12.87	12.92	12.97	13.03	13.10
Module Efficiency(%)	20.21	20.39	20.57	20.75	20.93	21.11	21.29

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM 1.5,  
NOCT: Irradiance at 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s.

MECHANICAL DATA

Solar Cells	Monocrystalline
Cell Size	182mm×91mm
Cell Configuration	156 cells (6×13+6×13)
Module Dimensions	2465×1134×35/30mm
Weight	31.2/31kg
Glass	High Transmission, Low Iron, Tempered ARC Glass 3.2mm
Back Sheet	White
Frame	Anodized Aluminium Alloy type 6005 T6, Silver Color
J-box	PV-RM01, IP68, 1500V DC, 3 Diodes
Cables	4.0mm², (+) 300mm, (-) 300mm ( Connector Included )
Connector	MC4-compatible

TEMPERATURE & MAXIMUM RATINGS

Nominal Operating Cell Temperature (NOCT)	44°C ± 2°C
Temperature Coefficient of Voc	-0.27%/°C
Temperature Coefficient of Isc	0.04%/°C
Temperature Coefficient of Pmax	-0.36%/°C
Operational Temperature	-40°C ~ +85°C
Max. System Voltage	1500V DC
Max. Series Fuse Rating	25A

PACKAGING CONFIGURATION

Height of Modules (mm)	35	30
Number of Modules Per Pallet	31	36
Packaging Box Dimensions (l×w×h) (mm)	2485×1120×1260	2485×1120×1260
Box Gross Weight (kg)	993	1142
Number of Modules Per 40ft (HQ) Container	496	576
Number of Pallets Per 40ft (HQ) Container	16	16