



DREAMAX^{series} VL-620W-210M/120TB

N-TOPCon
Bifacial Monocrystalline Module

2173×1303×35 **210×105**

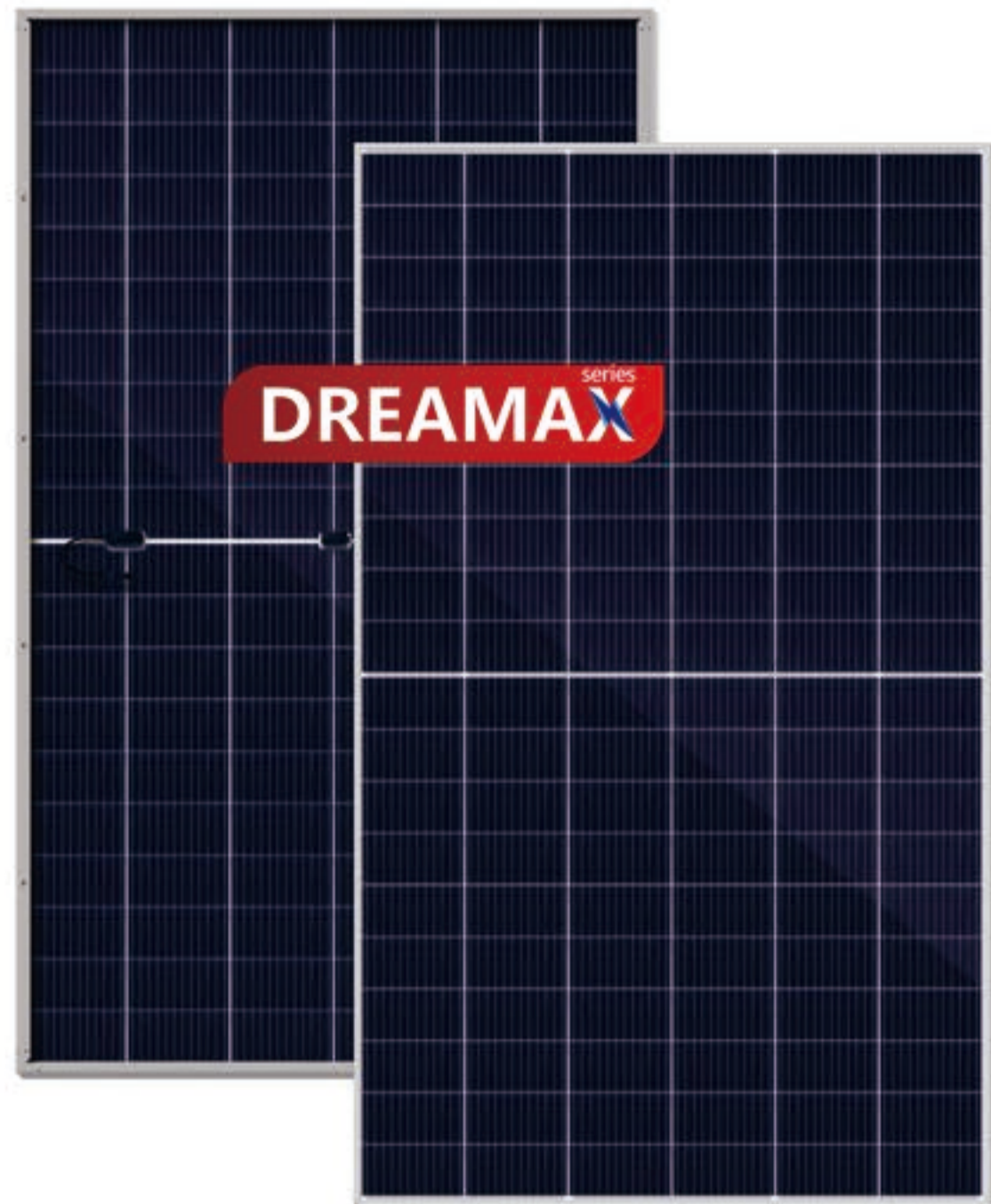
Module dimensions (mm) Cell size (mm)

120 CELL **600-620Wp**

Mono PERC module Power output

1500V DC **21.89%**

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.

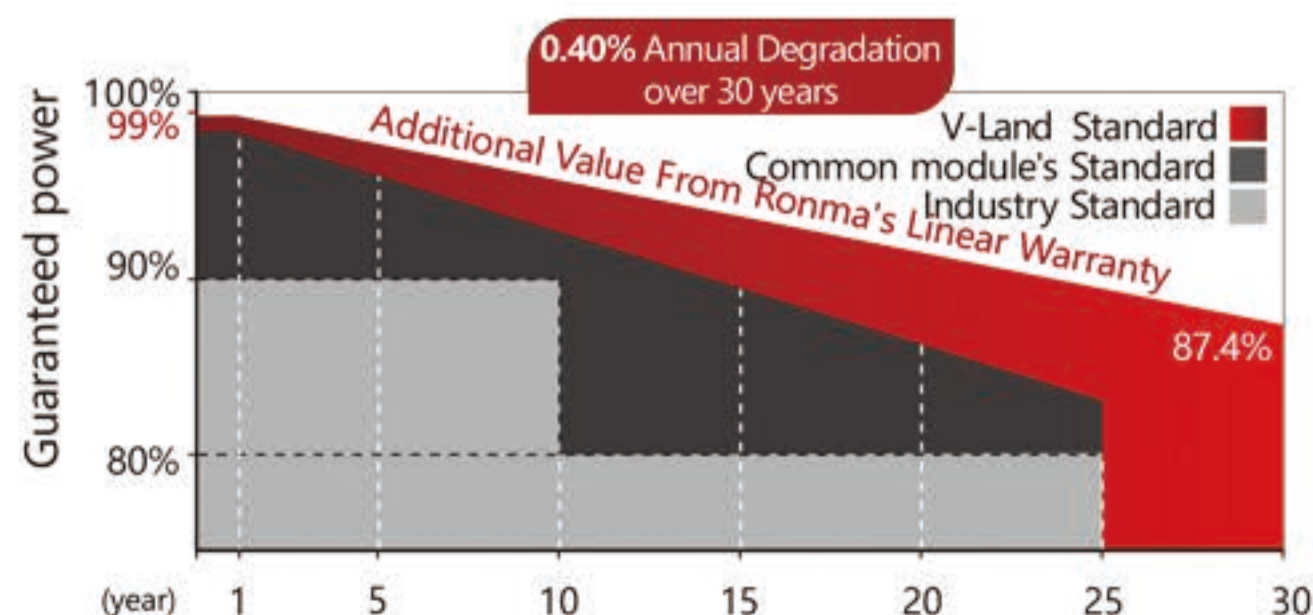


Comprehensive Products and System Certificates

- 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

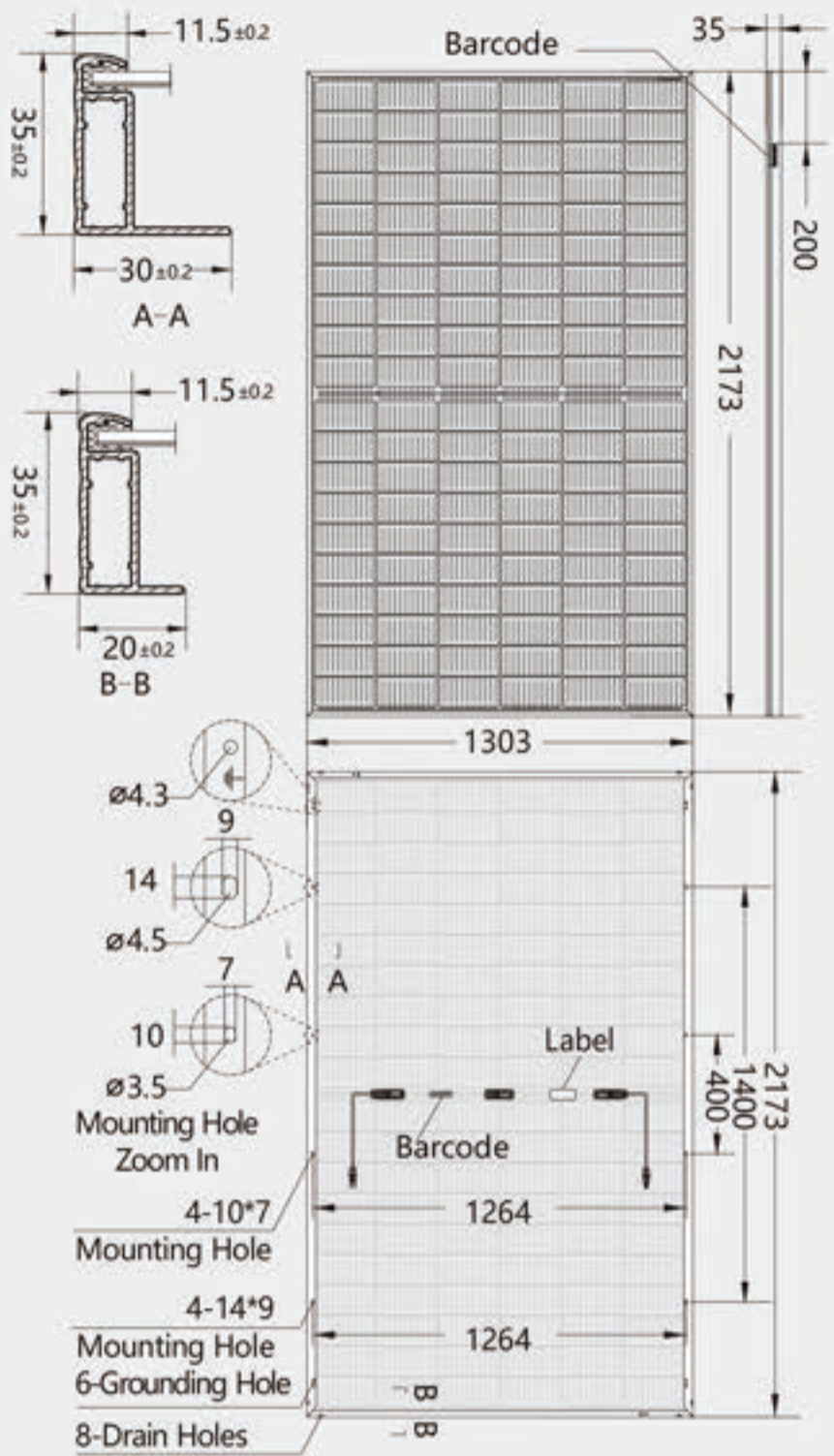
12-year product warranty / 30-year linear power warranty





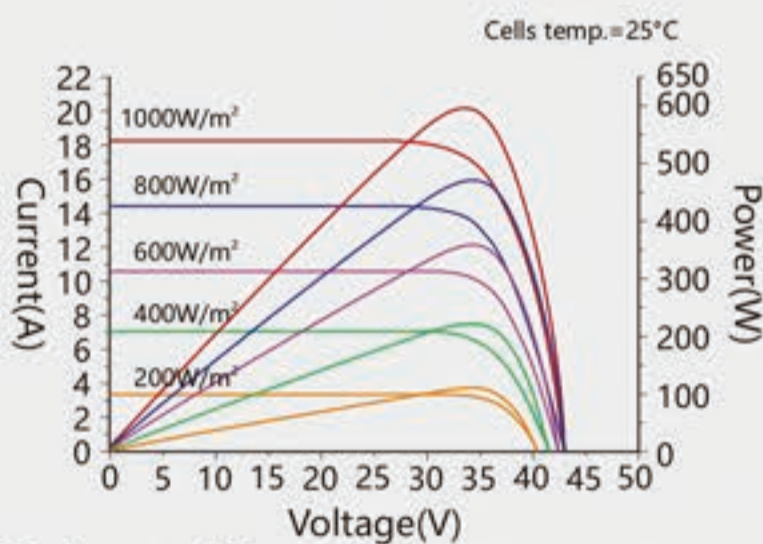
Dimensions of PV Module

Unit: mm

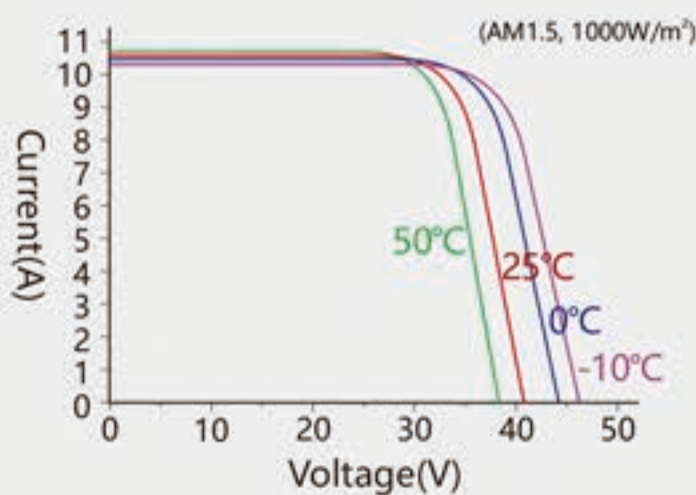


VL-615W-210M/120TB

I-V characteristics at different irradiances



I-V characteristics at different temperatures



ELECTRICAL CHARACTERISTICS

Model Number	VL-600W-210M/120TB	VL-605W-210M/120TB	VL-610W-210M/120TB	VL-615W-210M/120TB	VL-620W-210M/120TB
Rated Power in Watts-Pmax(Wp)	600	605	610	615	620
Open Circuit Voltage-Voc(V)	42.42	42.62	42.83	43.05	43.27
Short Circuit Current-Isc(A)	18.01	18.05	18.08	18.12	18.16
Max. Power Voltage-Vmpp(V)	35.3	35.51	35.74	35.97	36.18
Max. Power Current-Imp(A)	17.00	17.04	17.07	17.10	17.14
Module Efficiency(%)	21.19	21.36	21.54	21.72	21.89
Maximum system voltage(V)	1500				
Fuse Rating(A)	30				
Temperature coefficient Pmax(%/°C)	-0.30				
Temperature coefficient Isc(%/°C)	0.04				
Temperature coefficient Voc(%/°C)	-0.25				

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

Bifacial Output-Backside Power Gain

	Pmax(W)	660	665	671	676	682
10%	Module efficiency(%)	23.31	23.49	23.70	23.88	24.09
20%	Pmax(W)	720	726	732	738	744
	Module efficiency(%)	25.43	25.64	25.85	26.07	26.28

WORKING CHARACTERISTICS

Power level	600	605	610	615	620
Pmax(W)	457	460	464	468	472
Vmp(V)	33.14	33.34	33.56	33.77	33.97
Imp(A)	13.79	13.80	13.83	13.86	13.89
Voc(V)	40.15	40.34	40.54	40.75	40.95
Isc(A)	14.52	14.55	14.57	14.60	14.64
Power tolerance(%)	0~+3				
NOCT(°C)	44±2				

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

MECHANICAL CHARACTERISTICS

Number of cells	120pcs	Type of frame	Anodized Aluminum Alloy
Size of cell(mm)	210×105	Size of module(mm)	2173×1303×35
Type of cell	N-TOPCon Mono	Weight(kg)	37.2
Thickness of glass(mm)	2.0	Cables/connectors	4.0mm ² , MC4 compatible
Junction box	IP68	Length of Cable	+300mm/-300mm(connector included)

MAXIMUM RATINGS

Operating Temperature(°C)	-40~85
Operating humidity(°C)	5~85
Allowable Hail Load	25mm ice-ball with velocity of 23m/s

PACKAGING CONFIGURATION

	40ft (HQ)
Number of Modules Per Container	300
Number of Modules Per Pallet	30
Number of Pallets Per Container	10
Packaging Box Dimensions (l×w×h) (mm)	2200×1120×1445
Box Gross Weight (kg)	965