

Voltah Modules

525 ~ 550W

Monocrystalline Bifacial Module



2278 × 1134 × 35

Module dimensions (mm)

182 × 91

Cell size (mm)

144 CELL

TOPCon module

525~550Wp

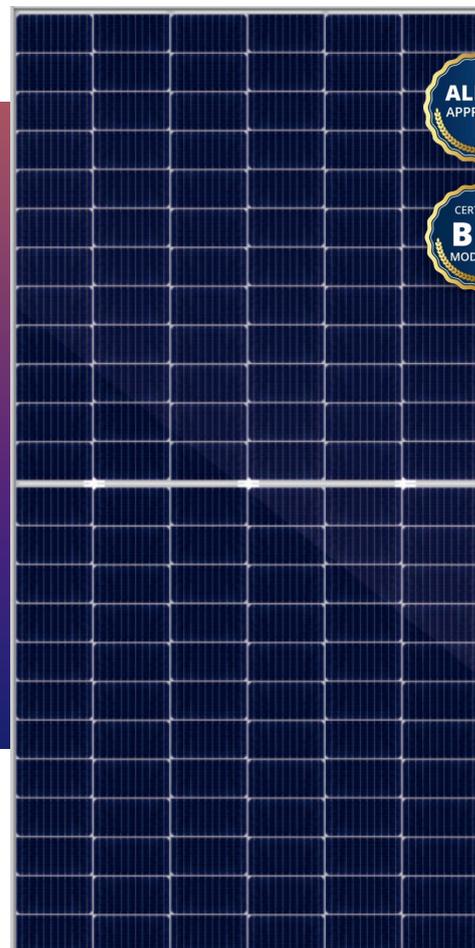
Power output

1500V DC

Max. system voltage

21.28%

Max. efficiency



Quality Guarantee

12-Years Material & technology warranty

30-Years Linear power output warranty



Higher Power Output

Module power increases by 5–25% generally, bringing significantly lower LCOE and higher IRR. 0~5W positive tolerance output warranty.



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.



Optimal Choice for Ultra-large Power Plants

Contribute to Lower BOS cost and LCOE.



Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance. 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

Three stage 100% EL Inspection warranting defect-free product.



A LOBEL Product

Electrical Data (STC)

LGVT550MP144 Bifacial

Bifacial Mono-crystalline PERC Module

Model No	LGVT525 MP144	LGVT530 MP144	LGVT535 MP144	LGVT540 MP144	LGVT545 MP144	LGVT550 MP144
Rated Power in Watts-Pmax (Wp)	525	530	535	540	545	550
Open Circuit Voltage-Voc(V)	49.12	49.32	49.52	49.69	49.90	50.10
Short Circuit Current-Isc(A)	13.63	13.70	13.78	13.86	13.90	13.95
Max. Power Voltage-Vmpp(V)	41.26	41.41	41.55	41.72	41.90	42.10
Max. Power Current-Imp(A)	12.73	12.81	12.88	12.95	13.02	13.07
Module Efficiency(%)	20.31	20.51	20.70	20.89	21.09	21.28

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.

Electrical Characteristics with different rear side power gain

5%	Pmax(Wp)	551	556	561
	Efficiency(%)	21.31	21.51	21.70
15%	Pmax(Wp)	605	610	615
	Efficiency(%)	23.40	23.60	23.79
25%	Pmax(Wp)	656	662	668
	Efficiency(%)	25.38	25.61	25.84

Bifacial Gain: The additional gain from the rear side compared to the power of the front side at the standard test condition.

It depends on mounting (structure, height, tilt angle etc.) and albedo of the ground

Mechanical Data

Solar Cells	Monocrystalline PERC
Cell Size	182mm x 91mm
Cell Configuration	144 Cells (6 x 12 + 6 x 12)
Module Dimensions	2278 x 1134 x 35mm
Weight	34.0kg
Front Glass	High Transmission, Low Iron, Tempered Arc Glass 2.0mm
Back Glass	High Transmission, Low Iron, Tempered Arc Glass 2.0mm
Frame	Anodized Aluminium Alloy Type 6005 T6, Silver Color
J-box	IP68, 1500V DC, 3 Diodes
Cables	4.0mm ² , (+) 300mm, (-) 300mm (Connector Included)
Connector	MC4-compatible

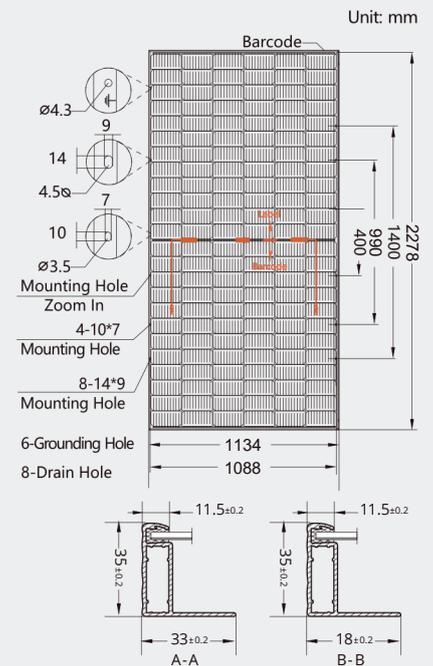
Temperature & Maximum Ratings

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

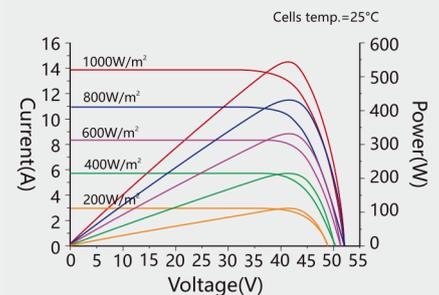
Packaging Configuration

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

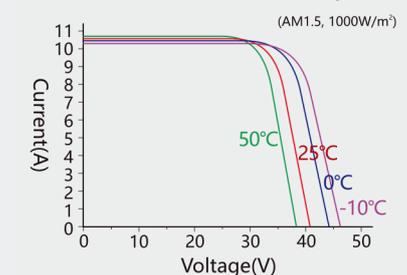
Dimensions of PV Module



I-V characteristics at different irradiances



I-V characteristics at different temperatures



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