

Voltah Modules

545 ~ 585W

N-TOPCon Bifacial Module



2278 × 1134 × 30

Module dimensions (mm)

182 × 91

Cell size (mm)

144 CELL

TOPCon module

545~585Wp

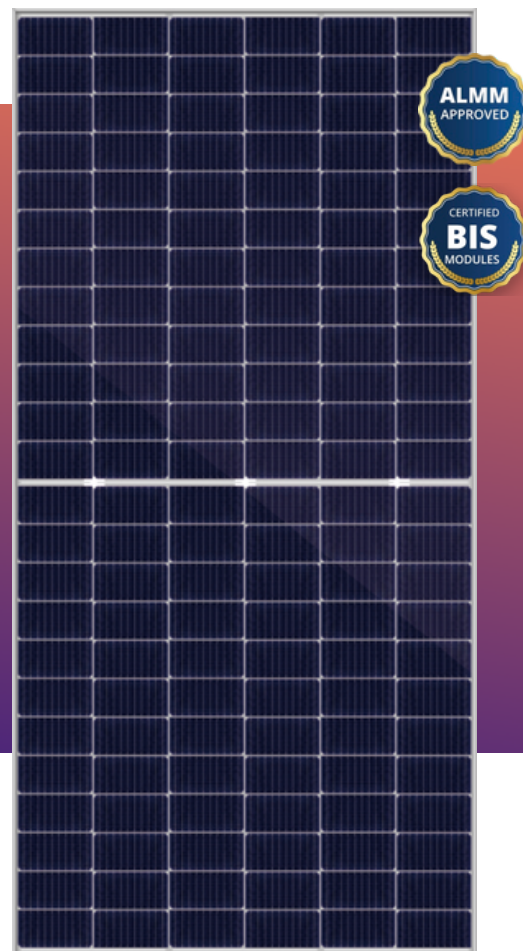
Power output

1500V DC

Max. system voltage

22.65%

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 Characteristics (STC*)

LGVT585TPC144 N-TOPCon Bifacial Module

Model No	LGVT545 TPC144	LGVT550 TPC144	LGVT560 TPC144	LGVT570 TPC144	LGVT575 TPC144	LGVT580 TPC144	LGVT585 TPC144
Rated Power in Watts-Pmax (Wp)	545	550	560	570	575	580	585
Open Circuit Voltage-Voc(V)	50.04	50.18	50.67	51.07	51.27	51.47	51.16
Short Circuit Current-Isc(A)	13.90	14.98	14.13	14.25	14.31	14.37	14.55
Max. Power Voltage-Vmpp(V)	41.33	41.48	41.96	42.30	42.45	42.60	42.62
Max. Power Current-Impp(A)	13.19	13.26	13.35	13.48	13.55	13.62	13.76
Module Efficiency(%)	21.10	21.29	21.68	22.07	22.26	22.45	22.65
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						
Refer. Bifacial Factor	80±5%						

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

Working Characteristics (NOCT*)

Model No	LGVT545 TPC144	LGVT550 TPC144	LGVT560 TPC144	LGVT570 TPC144	LGVT575 TPC144	LGVT580 TPC144	LGVT585 TPC144
Rated Power in Watts-Pmax(Wp)	408	412	421	429	432	436	440
Open Circuit Voltage-Voc(V)	47.53	47.66	48.13	48.51	48.70	48.89	49.08
Short Circuit Current-ISC(A)	11.16	11.25	11.41	11.50	11.15	11.60	12.01
Max. Power Voltage-Vmpp(V)	38.91	39.03	39.39	39.78	39.78	39.87	39.96
Max. Power Current-Impp(A)	10.48	10.56	10.89	10.87	10.87	10.94	11.02
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

Electrical Charecteristics with different rear side power gain

5%	Pmax(Wp)	572	577	588	598	603	609	614
	Efficiency(%)	22.14	22.33	22.76	23.14	23.34	23.57	23.76
15%	Pmax(Wp)	626	632	644	655	661	667	672
	Efficiency(%)	24.23	24.46	24.92	25.35	25.58	25.82	26.01
25%	Pmax(Wp)	681	687	700	712	718	725	731
	Efficiency(%)	26.36	26.59	27.09	27.56	27.79	28.06	28.29

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.

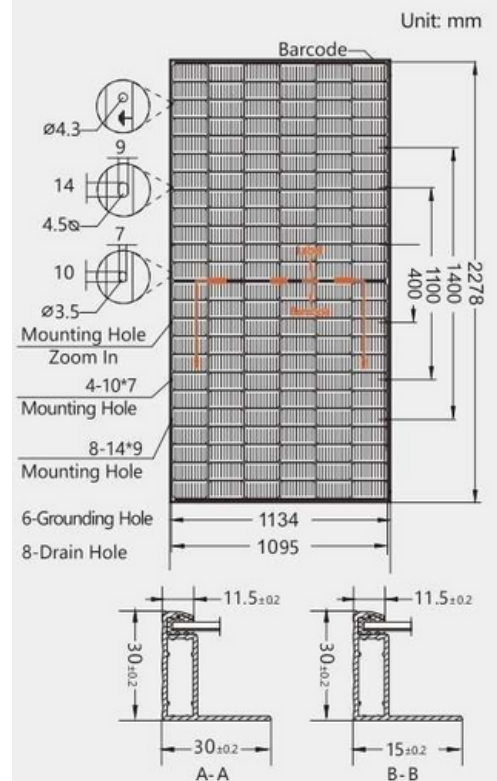
Mechanical Characteristics

Number of cells	144pcs	Type of frame	Anodized Aluminum Alloy
Size of cell(mm)	182 x 91	size of module(mm)	2278 x 1134 x 30
Type of cell	N-TOPCon Mono	Weight(kg)	34.0
Thickness of glass(mm)	2.0	Weight(kg)	4.0mm ² , MC4 compatible
Junction box	IP68	Cables/connectors	+300mm/-300mm (Connector Included)

Packaging Configuration

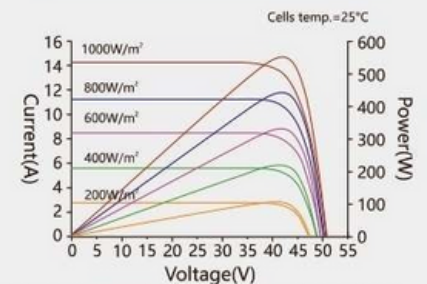
	40ft (HQ)
Number of Modules Per Container	620
Number of Modules Per Pallet	31
Number of Pallets Per Container	20
Packaging Box Dimensions (l x w x h) (mm)	2300 x 1120 x 1260
Box Gross Weight (kg)	1084

Dimensions of PV Module

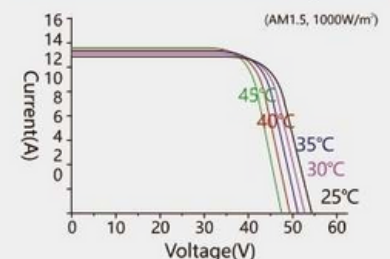


LGVT585TPC144

I-V Characteristics at different irradiances



I-V characteristics at different temperatures



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