

Voltah Modules

605~630W

N-TOPCon Bifacial Module



2465 × 1134 × 35/30

Module dimensions (mm)

182 × 91

Cell size (mm)

156 CELL

TOPCon module

605~630Wp

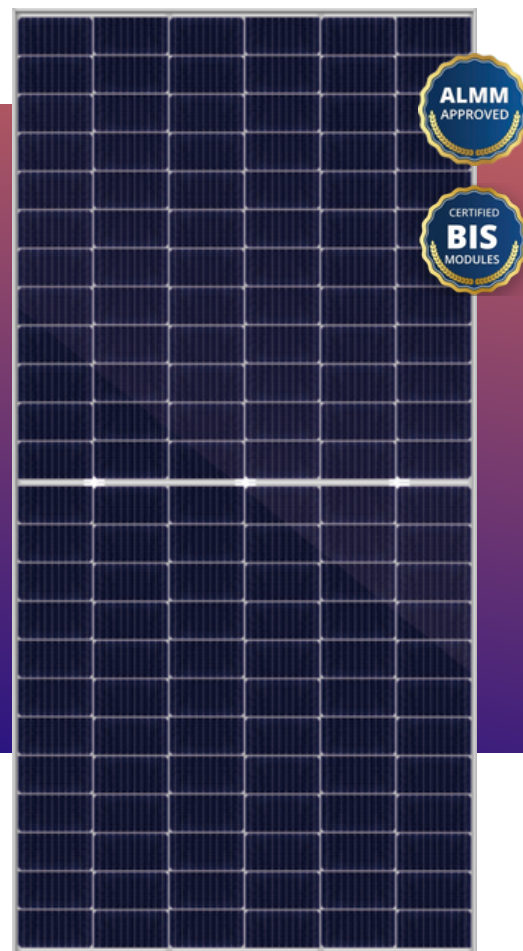
Power output

1500V DC

Max. system voltage

22.53%

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*)

LGVT630TPC156 N-TOPCon Bifacial Module

Model No	ASPL605 TPC156	ASPL610 TPC156	ASPL615 TPC156	ASPL620 TPC156	ASPL625 TPC156	ASPL630 TPC156
Model Number	605	610	615	620	625	630
Rated Power in Watts-Pmax(Wp)	55.17	55.31	55.44	55.58	55.72	55.85
Open Circuit Voltage-Voc(V)	13.95	14.03	14.11	14.19	14.27	14.39
Short Circuit Current-Isc(A)	45.42	45.60	45.77	45.93	46.10	46.02
Max. Power Voltage-Vmpp(V)	13.32	13.38	13.44	13.50	13.56	13.69
Max. Power Current-Impp(A)	21.64	21.82	22.00	22.18	22.35	22.53
Module Efficiency(%)	1500v DC					
Maximum system voltage	25					
Fuse Rating(A)	-0.30%/°C					
Temperature coefficient Pmax	0.046%/°C					
Temperature coefficient Isc	-0.25%/°C					
Temperature coefficient Voc	80±5%					
Refer. Bifacial Factor						

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

Working Characteristics (NOCT*)

Model No	ASPL605 TPC156	ASPL610 TPC156	ASPL615 TPC156	ASPL620 TPC156	ASPL625 TPC156	ASPL630 TPC156
Rated Power in Watts-Pmax(Wp)	455	459	462	466	470	474
Open Circuit Voltage-Voc(V)	42.23	42.35	42.46	42.57	42.68	42.72
Short Circuit Current-ISC(A)	10.77	10.83	10.89	10.95	11.01	11.09
Max. Power Voltage-Vmpp(V)	52.41	52.54	52.66	52.79	52.93	53.05
Max. Power Current-Impp(A)	11.26	11.33	11.39	11.46	11.52	11.62
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)	635	641	646	651	656	661
	Efficiency(%)	22.73	22.91	23.10	23.29	23.48	23.66
15%	Pmax(Wp)	696	702	707	713	719	724
	Efficiency(%)	24.89	25.10	25.30	25.51	25.71	25.92
25%	Pmax(Wp)	756	763	769	775	781	787
	Efficiency(%)	27.05	27.28	27.50	27.73	27.95	28.17

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.

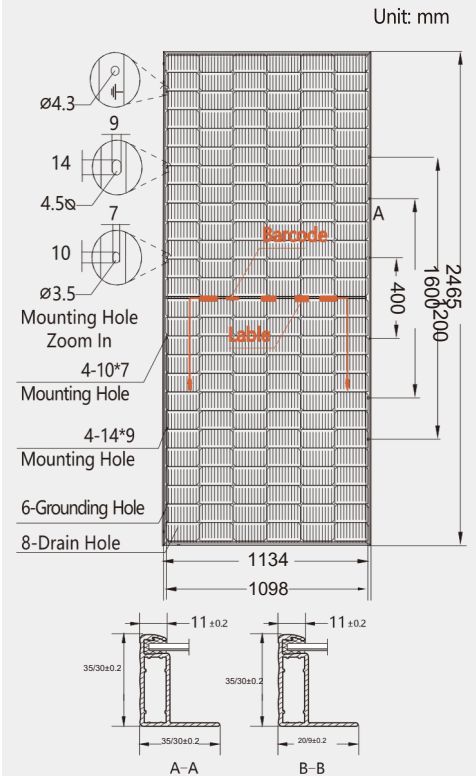
Mechanical Characteristics

Number of cells	156pcs	Type of frame	Anodized Aluminum Alloy
Size of cell(mm)	182 x 91	size of module(mm)	2465 x 1134 x 35/30
Type of cell	N-TOPCon Mono	Weight(kg)	34.0
Thickness of glass(mm)	2.0	Cables/connectors	4.0mm ² , MC4 compatible
Junction box	IP68	Length of Cabel	+300mm/-300mm (Connector Included)

Packaging Configuration

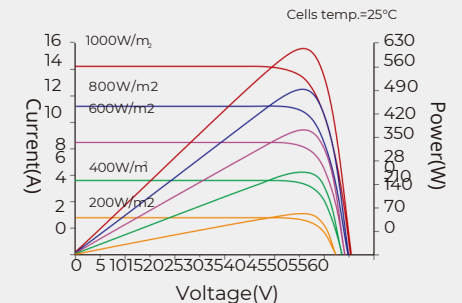
	40ft (HQ) /35mm
Number of Modules Per Container	496
Number of Modules Per Pallet	31
Number of Pallets Per Container	16
Packaging Box Dimensions (l x w x h) (mm)	1260 x 1120 x 2485
Box Gross Weight (kg)	1080

Dimensions of PV Module

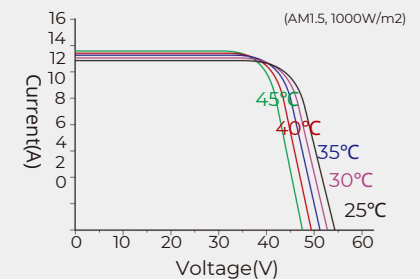


LGVT550MP144

I-V characteristics at different irradiances



I-V characteristics at different temperatures



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