

Voltah Modules

600 ~ 645W

N-TOPCon Bifacial Monocrystalline Module



23.90

Maximum efficiency %

105 × 182.2

Cell size (mm)

132 CELL

Cell Type

600 ~ 645W

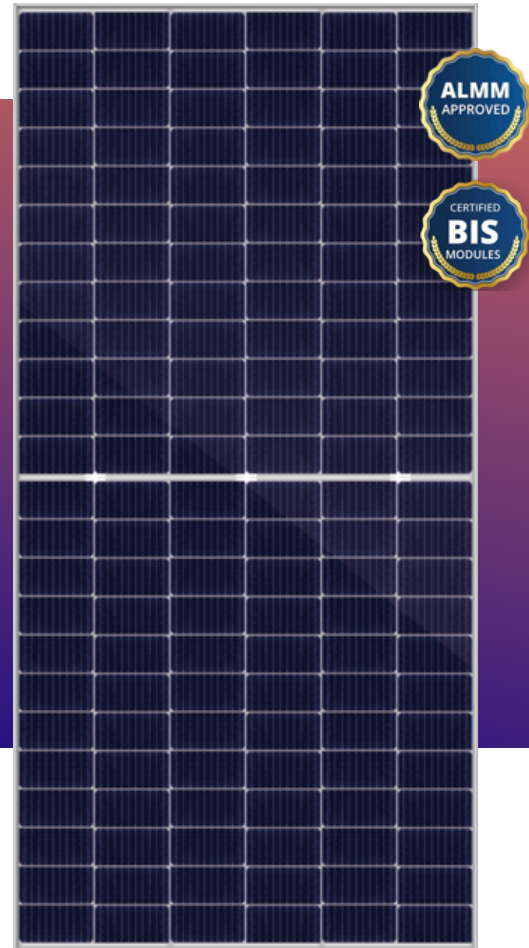
Power output

1500VDC

Max. system voltage

80%

Bifaciality Factor



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.



Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance, Lower temperature coefficient and operating temperature.



Zero LID

N-Type cell is characterized by "0" LID, which generates more power



More Outstanding Low-light Performance

Higher power output even under low-light environments like on cloudy days.



PID Resistance

Excellent Anti-PID performance guarantee via optimized massproduction process and material control.



Enhanced Mechanical Load

Certified to withstand: wind load (2400 Pa) and snow load (5400 Pa).



Optimal Choice for Ultra-large Power Plants

Contribute to Lower BOS cost and LCOE.



EL Full Inspection

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



A LOBEL Product

Electrical Characteristics (STC¹2)

LGVT600 ~ 645W N-TOPCon | Bifacial Monocrystalline Module

Model No	LGVT600 TPC144	LGVT605 TPC144	LGVT6010 TPC144	LGVT615 TPC144	LGVT620 TPC144	LGVT625 TPC144	LGVT630 TPC144	LGVT635 TPC144	LGVT640 TPC144	LGVT645 TPC144
Rated Power in Watts-Pmax (Wp)	600	605	610	615	620	625	630	635	640	645
Open Circuit Voltage-Voc(V)	46.87	46.93	47.05	47.14	47.25	47.36	47.47	47.59	47.71	47.87
Short Circuit Current-Isc(A)	15.65	15.70	15.79	15.89	15.98	16.07	16.17	16.25	16.34	17.18
Max. Power Voltage-Vmpp(V)	40.25	40.46	40.57	40.65	40.73	40.83	40.92	41.02	41.12	41.20
Max. Power Current-Impp(A)	14.91	14.95	15.04	15.13	15.22	15.31	15.40	15.48	15.56	15.66
Module Efficiency(%)	22.22	22.41	22.59	22.78	22.96	23.15	23.33	23.52	23.70	23.90

*STC:1000 W/M2 IRRADIANCE, 25°C CELL TEMPERATURE, AM1.5G SPECTRUM ACCORDING TO EN 60904-3 | 2) TOLERANCE OF RATING AT STC (PMPP / ISC / VOC) [%] : 0-3/±5/±5]

Working Characteristics (NOCT³)

Model No	LGVT600 TPC144	LGVT605 TPC144	LGVT6010 TPC144	LGVT615 TPC144	LGVT620 TPC144	LGVT625 TPC144	LGVT630 TPC144	LGVT635 TPC144	LGVT640 TPC144	LGVT645 TPC144
Rated Power in Watts-Pmax (Wp)	454.98	488.26	492.29	496.33	500.36	504.40	508.44	512.47	516.51	520.70
Open Circuit Voltage-Voc(V)	44.47	44.52	44.64	44.73	44.83	44.94	45.04	45.15	45.27	45.42
Short Circuit Current-Isc(A)	12.63	12.67	12.74	12.82	12.90	12.97	13.05	13.12	13.19	13.86
Max. Power Voltage-Vmpp(V)	37.82	40.46	40.57	40.65	40.73	40.83	40.92	41.02	41.12	41.20
Max. Power Current-Impp(A)	12.03	12.07	12.13	12.21	12.28	12.35	12.43	12.49	12.56	12.64

*NOCT: Irradiance 800W/m², Module Temperature 45°C ±2 , AM 1.5, Ambient Temperature 20°C,Wind Speed-1m/s,Operating Temperature -40°C~85°C, measuring Uncertainty ±2%

Bi-facial Output Backside Power Gain's

5%	Pmax(Wp)	630	635.25	640.5	645.75	651	656.25	661.5	666.75	672	677.25
	Efficiency(%)	23.23	23.53	23.72	23.92	24.11	24.31	24.50	24.69	24.89	25.09
15%	Pmax(Wp)	690	695.75	701.5	707.25	713	718.75	724.5	730.25	736	741.75
	Efficiency(%)	25.56	25.77	25.98	26.19	26.41	26.62	26.83	27.05	27.26	27.48
25%	Pmax(Wp)	750	756.25	762.5	768.75	775	781.25	787.5	793.75	800	806.25
	Efficiency(%)	27.78	28.01	28.24	28.47	806	28.94	29.17	29.40	29.63	29.87

Mechanical Characteristics

Length x Width x Thickness (L x W x T)	2382 mm (L) x 1134 mm (W) x 30 mm (T)
Weight	33.5 kgs
Solar Cells per Module (Units) / Arrangement	132 cells/(11x6 11x6)
Solar Cell Type & Size	G12R N TYPE TOPCON 16BB& 105 x 182.2 mm
Front Glass (Material / Thickness)	2 mmLowIron HTAR semi-tempered glass
BackGlass(Material/Thickness)	2mm LowIron Printed semi-temperedglass
Junction Box (Protection degree / Material)	IP68/Weatherproof PPO, 3 Diodes
Cable & Connector (Protection degree / Type)	IP68 rated/4 mm² & MC4 compatible
Cable cross-section & Length	4 mm² & 300mm
Frame	Anodized Aluminium Alloy

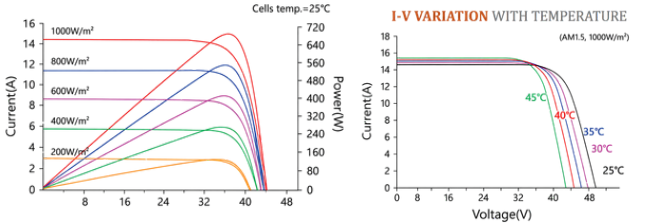
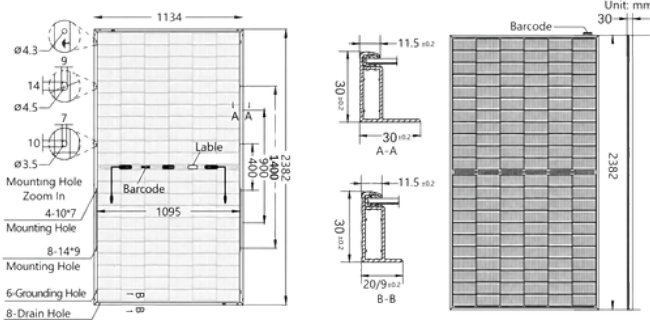
Temperature Coefficient (Tc)

Maximum system voltage	1500V
Fuse Rating(A)	35A
Temperature coefficient Pmax	-0.30%/C
Temperature coefficient Isc	-0.044%/C
Temperature coefficient Voc	+0.256%/C

Packaging Configuration

Quantity /Pallet	36
Pallets/Container (40'HC)	20
Quantity/Container (40'HC)	720

Module Dimension



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