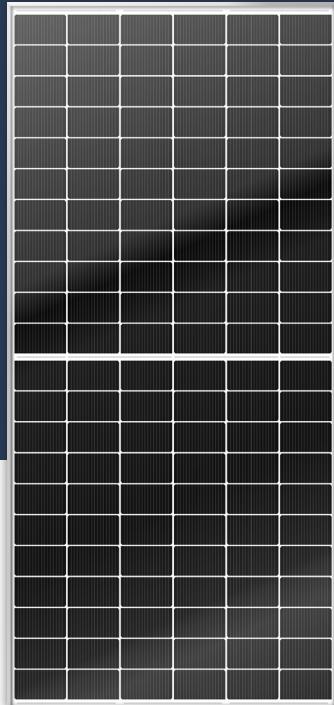




595-615 W

High Efficiency Bifacial Dual Glass TOPCon Module

TS-BGT66-G11



Bifacial technology allows for the harvesting of up to an additional 25% energy from the rear side of the module.



30 years lifespan brings 10–30% additional power generation comparing with conventional P-type module.



N-type solar cell has no LID naturally which can increase power generation.



Excellent low irradiance performance.



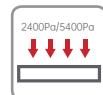
Enhanced light trapping and optimized current collection contribute to the improvement of both module power output and reliability.



Industry leading lowest thermal coefficient of power.



Design optimized for lower operating current, resulting in minimized hot spot loss and improved temperature coefficient.

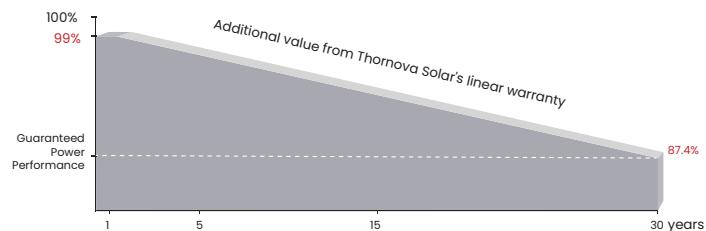


Certified to withstand: wind load (2400 Pa) and snow load (5400 Pa).



100% triple EL test enables remarkable reduction of module hidden crack rate.

LINEAR PERFORMANCE WARRANTY



15 years

Product quality & process guarantee

30 years

Linear power guarantee

0.40 %

Annual degradation Over 30 years

COMPREHENSIVE CERTIFICATES



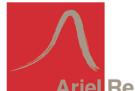
ISO 9001: Quality Management System

ISO 14001: Environmental Management System Standard

ISO 45001: International Occupational Health and Safety Assessment System Standard

* Different markets have different certification requirements. Also, the products are under rapid innovation. Please confirm the certification status with regional sales representatives.

RE INSURANCE



* Optional performance warranty insurance. Please contact our local sales staff for more information.

ELECTRICAL CHARACTERISTICS

2x66 cells

Model of modules	TS-BGT66(595)-G11		TS-BGT66(600)-G11		TS-BGT66(605)-G11		TS-BGT66(610)-G11		TS-BGT66(615)-G11	
	STC	NOCT								
Peak power - P_{mp} (W)	595	454	600	459	605	462	610	466	615	470
Open circuit voltage - V_{oc} (v)	48.10	45.70	48.40	46.00	48.70	46.20	49.00	46.50	49.30	46.80
Short circuit current - I_{sc} (A)	15.76	12.69	15.80	12.73	15.83	12.75	15.86	12.78	15.89	12.81
MPP voltage - V_{mp} (v)	40.00	37.60	40.30	37.90	40.50	38.10	40.80	38.30	41.00	38.60
MPP current - I_{mp} (A)	14.89	12.07	14.91	12.11	14.94	12.13	14.96	12.16	14.99	12.18
Module efficiency - η_m (%)	22.0 %		22.2 %		22.4 %		22.6 %		22.8 %	

STC (Standard Testing Conditions): Irradiance 1000W/m², Cell Temperature 25 °C , Spectra at AM1.5

NOCT (Nominal Operating Cell Temperature): Irradiance 800W/m², Ambient Temperature 20°C , Spectra at AM1.5, Wind at 1m/s

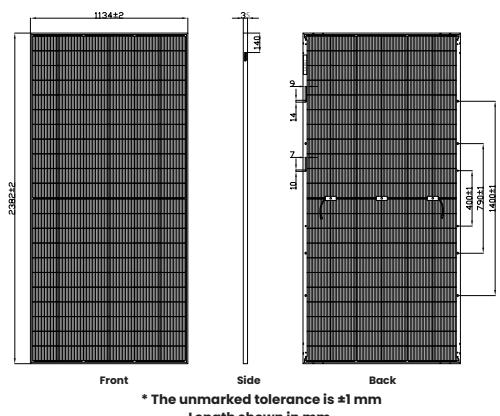
ELECTRICAL CHARACTERISTICS WITH DIFFERENT POWER BIN (REFERENCE TO 13.5% IRRADIANCE RATIO)

Peak power - P_{mp} (W)	660	666	670	676	681
Open circuit voltage - V_{oc} (v)	48.10	48.40	48.70	49.00	49.30
Short circuit current - I_{sc} (A)	17.46	17.51	17.54	17.57	17.61
MPP voltage - V_{mp} (v)	40.00	40.30	40.50	40.80	41.00
MPP current - I_{mp} (A)	16.50	16.52	16.55	16.58	16.61
Irradiance ratio (rear/front)	13.5%				

STRUCTURAL CHARACTERISTICS

Module dimension (L*W*H)	2382 x 1134 x 35 mm (93.78 x 44.65 x 1.38 inch)
Weight	32.5 kg (71.65 lbs)
Number of cells	132 cells
Cell	N-type monocrystalline
Glass	(F)2.0mm, Anti-Reflection Coating (B)2.0mm, Heat Strengthened Glass
Frame	Anodized aluminum alloy
Junction box	IP68, 3 bypass diodes
Output wire	4.0 mm ²
Wire length	300 mm / 1200 mm / Customized length
Connector	MC4 - EVO2
Packing specification	31 pcs/Pallet; 527 pcs/40'HQ

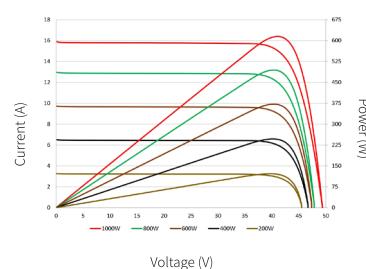
MODULE DIMENSIONS (MM)



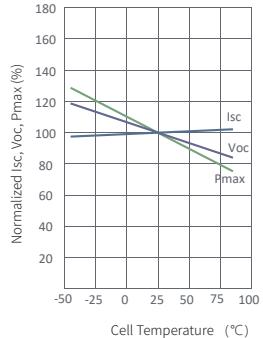
Scan the QR code to get more information

Web: www.thornovasolar.com

Current-Voltage & Power-Voltage Curves (615W)



Temperature Dependence of Isc,Voc,Pmax



* The parameters delineated within this datasheet, both technical and monetary, may exhibit variations contingent upon the region. Thronova Solar provides no warranty as to their absolute accuracy. Owing to our unceasing commitment to innovation, research, development, and product enhancement, Thronova Solar retains the discretion to amend any information encapsulated in this datasheet without any preceding notification. Clients are urged to procure the most recent iteration of this datasheet and incorporate it as an intrinsic component of the legally binding agreement ratified by both parties. The English rendition of this datasheet serves purely as a point of reference. Should discrepancies arise between the English text and versions rendered in other languages, the stipulations of the English version shall take precedence.