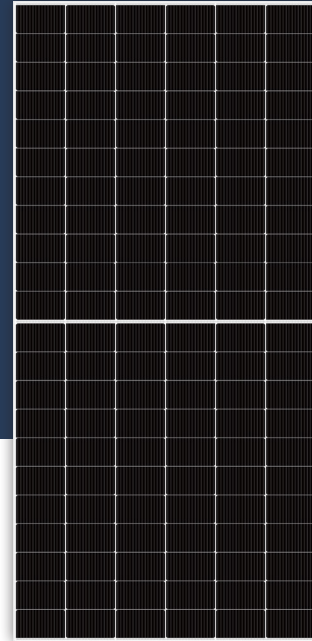


Tangra™ L Pro HD 600-620W

N-Type High efficiency Bifacial Dual Glass Module



Bifacial technology enables additional energy harvesting from rear side (up to 30%)



30-year lifespan delivers 10-30% more power compared with conventional P-type modules



The natural lack of LID in the N-type solar cell can increase power generation



Excellent low irradiance performance



Better light trapping and current collection to improve module power output and reliability



Industry-leading, lowest thermal coefficient



Optimized electrical design and lower operating current for reduced hot spot loss and better temperature

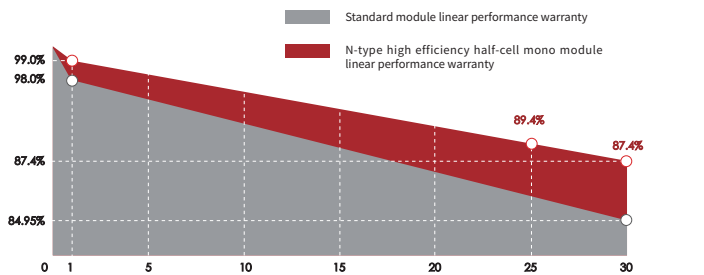


Certified to withstand 2400 Pa of wind load and 5400 Pa of snow load



100% triple EL test, which greatly reduces the hidden cracks rate

LINEAR PERFORMANCE WARRANTY



15 years

Product quality & process guarantee

30 years

Linear power guarantee

0.40 %

Annual degradation

COMPREHENSIVE CERTIFICATES



ISO 9001: Quality Management System

ISO 14001: Environmental Management System Standard

ISO 45001: International Occupational Health and Safety Assessment System Standard

SA8000: 2014 Social Accountability Management System

WARRANTY INSURANCE



Warranty partner

Munich RE



中国平安
PING AN
P & C INSURANCE CO CN SZN

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

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

ELECTRICAL CHARACTERISTICS

132 cells

Model of modules	TS-BGT66(600)-G11		TS-BGT66(605)-G11		TS-BGT66(610)-G11		TS-BGT66(615)-G11		TS-BGT66(620)-G11	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum power — P_{mp} (W)	600	459	605	462	610	466	615	470	620	474
Open-circuit voltage — V_{oc} (V)	48.40	46.00	48.70	46.20	49.00	46.50	49.30	46.80	49.60	47.10
Short-circuit current — I_{sc} (A)	15.80	12.73	15.83	12.75	15.86	12.78	15.89	12.81	15.92	12.84
Maximum power voltage — V_{mp} (V)	40.30	37.90	40.50	38.10	40.80	38.30	40.98	38.60	41.22	38.88
Maximum power current — I_{mp} (A)	14.91	12.11	14.94	12.13	14.96	12.16	14.98	12.18	15.03	12.20
Module efficiency — η_m (%)	22.2		22.4		22.6		22.8		23.0	

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

NMOT (Nominal Module Operating 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_{max}) (W)	666	670	676	680	686
Open Circuit Voltage (V_{oc}) (V)	48.40	48.70	49.00	49.30	49.60
Short Circuit Current (I_{sc}) (A)	17.51	17.54	17.57	17.61	17.64
MPP Voltage (V_{mp}) (V)	40.30	40.50	40.80	40.98	41.22
MPP Current (I_{mp}) (A)	16.52	16.55	16.58	16.60	16.65

STRUCTURAL CHARACTERISTICS

Module size (L*W*H)	2382x 1134 x 30 mm
Weight	32.5 kg
Cell	132 cells, N-type monocrystalline
Front glass	2.0mm, anti-reflection coating
Back glass	2.0mm, heat strengthened glass
Frame	Anodized aluminum alloy
Junction box	IP68, 3 diodes
Output wire	4.0 mm ²
Wire length	300mm/1200mm/customized
Connector	MC4 Compatible
Packing Specification	37pcs/pallet; 740 pcs/40'HQ

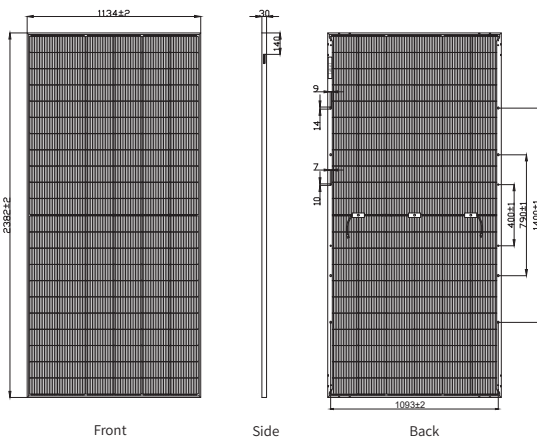
OPERATING PARAMETERS

Power tolerance (W)	(0,+5)
Maximum system voltage (V)	1500
Maximum rated fuse current (A)	30
Current operating temperature (°C)	-40~+85 °C
Mechanical load	5400 Pa * / 2400 Pa **

TEMPERATURE PERFORMANCE RATINGS

Temperature coefficient (P_{max})	-0.30 %/°C
Temperature coefficient (V_{oc})	-0.28 %/°C
Temperature coefficient (I_{sc})	+0.04 %/°C
Nominal Module Operating Temperature	43±2 °C

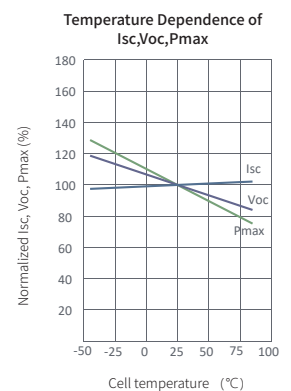
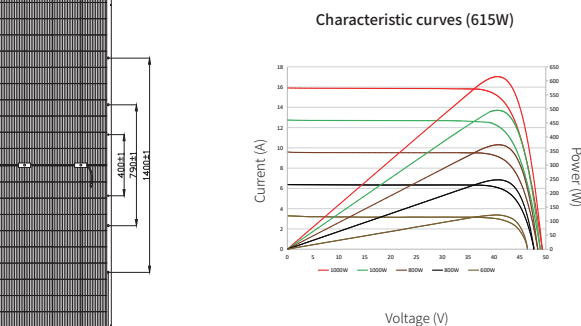
MODULE DIMENSIONS (MM)



* The unmarked tolerance is ±1 mm
Length shown in mm



Scan the QR code to
get more information



Web: www.thornovasolar.com

E-mail: info@thornovasolar.com

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