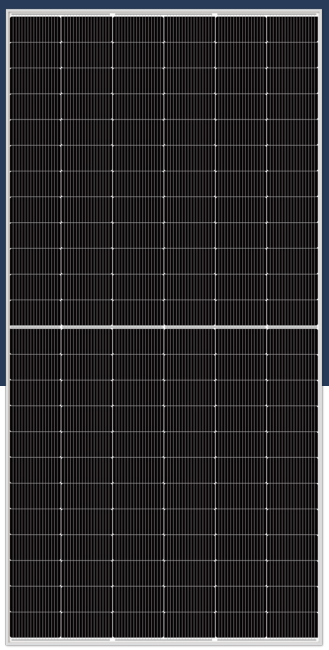
THORNOVA solar | TIER 1 BloombergNEF

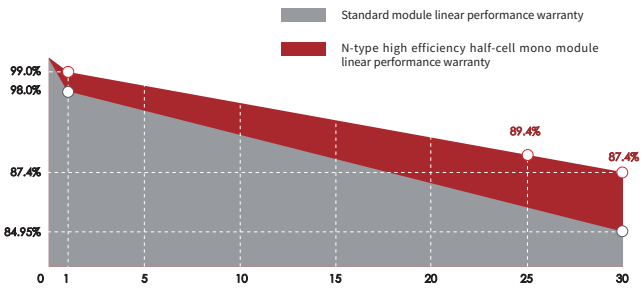
Tangra™ M Pro 570W

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

WARRANTY INSURANCE

Ariel Re | LLOYD'S Underwriters | 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.

COMPREHENSIVE CERTIFICATES

TÜV NORD | CE | INMETRO

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

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

ELECTRICAL CHARACTERISTICS

144 cells

Model of modules	TS-BGT72(570)	
	STC	NOCT
Maximum power — P_{mp} (W)	570	436
Open-circuit voltage — V_{oc} (V)	51.52	49.33
Short-circuit current — I_{sc} (A)	13.70	11.04
Maximum power voltage — V_{mp} (V)	43.62	41.77
Maximum power current — I_{mp} (A)	13.07	10.45
Module efficiency — η_m (%)	22.1	

STC (Standard Testing Conditions): Irradiance 1000W/m², Cell Temperature 25 ℃, Spectra at AM1.5
NMOT (Nominal Module Operating Temperature): Irradiance 800W/m², Ambient Temperature 20℃, 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)	632
Open circuit voltage (V_{oc}) (V)	51.52
Short circuit current (I_{sc}) (A)	15.18
MPP voltage — V_{mp} (V)	43.62
MPP current — I_{mp} (A)	14.48

STRUCTURAL CHARACTERISTICS

Module dimensions (L*W*H)	2278 x 1134 x 30 mm
Weight	31.5 kg
Cell	144 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 bypass diodes
Output wire	4.0 mm²
Wire length	300mm/1200mm/customized length
Connector	MC4 Compatible
Packaging specification	37 pcs/Pallet; 740 pcs/40'HQ

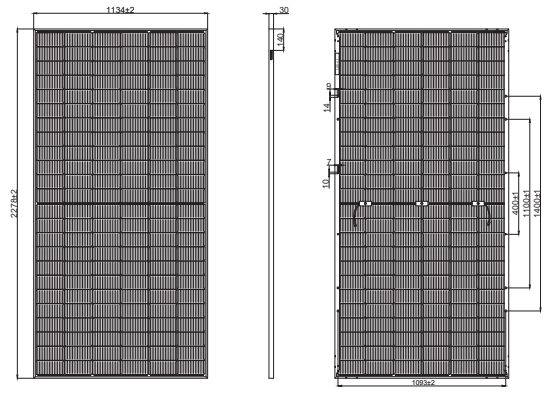
OPERATING PARAMETERS

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

TEMPERATURE PERFORMANCE RATINGS

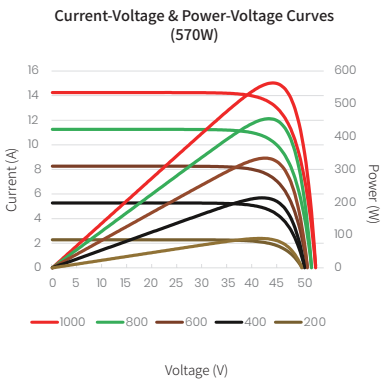
Temperature coefficient (P_{max})	-0.30 %/℃
Temperature coefficient (V_{oc})	-0.28 %/℃
Temperature coefficient (I_{sc})	+0.04 %/℃
Nominal Module Operating Temperature	43±2 ℃

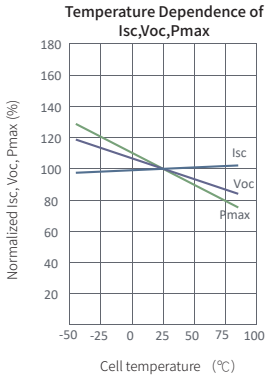
MODULE DIMENSIONS (MM)



Front Side Back

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





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