THORNOVA

Tangra[™] M HD **485-505W**

N-Type High efficiency Monofacial Single Glass Module



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

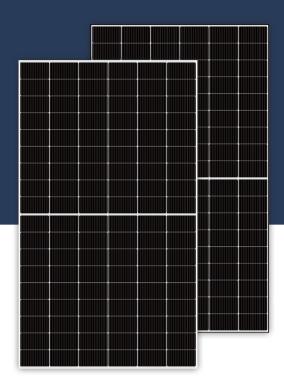


100% triple EL test, which greatly reduces the hidden cracks rate

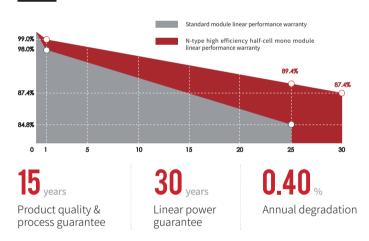
WARRANTY INSURANCE



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



LINEAR PERFORMANCE WARRANTY



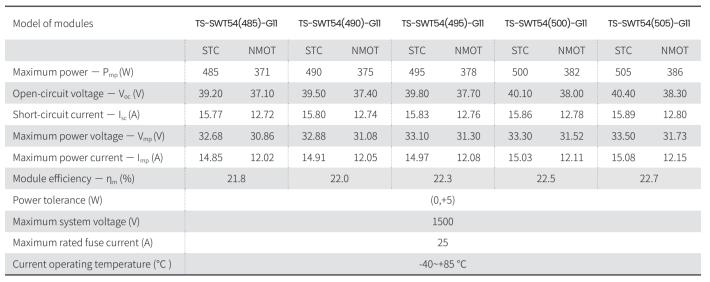
COMPREHENSIVE CERTIFICATES



ISO 9001:	Quality Management System
ISO 14001:	Environmental Management System Standard
	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



STC (Standard Testing Conditions): Irradiance 1000W/m², Cell Temperature 25 $^{\circ}$ C, Spectra at AM1.5 NMOT (Nominal Module Operating Temperature): Irradiance 800W/m², Ambient Temperature 20 $^{\circ}$ C, Spectra at AM1.5, Wind at 1m/s

STRUCTURAL CHARACTERISTICS

Module dimensions (L*W*H)	1961x 1134 x 30 mm
Weight	24.0 kg
Number of cells	108 cells
Cell	N-type monocrystalline
Glass	Tempered, 3.2 mm AR, high transmittance, low iron
Frame	Anodized aluminum alloy (Silver/Black)
Junction box	IP68, 3 bypass diodes
Output wire	4.0 mm², wire length: 300mm/1200mm/customized
Connector	MC4 Compatible
Mechanical load	Snow load: 5400 Pa 🛊 / Wind load: 2400 Pa 😒

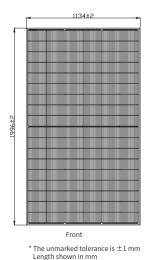
TEMPERATURE PERFORMANCE RATINGS

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℃

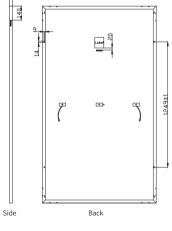
PACKAGING CONFIGURATION

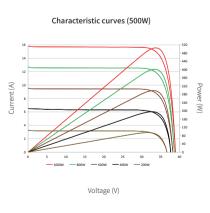
Container	40HQ
Quantity/pallet	36
Pallets/container	24
Quantity/container	864

MODULE DIMENSIONS (MM)



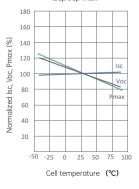
: •







108 cells



Web: www.thornovasolar.com

Scan the QR code to get more information

E-mail: info@thornovasolar.com

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