THORNOV

Tangra[™] L HD C 690-710W

Composite Frame

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

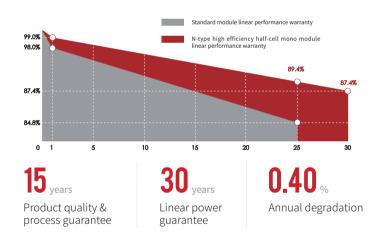
WARRANTY INSURANCE



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



LINEAR PERFORMANCE WARRANTY



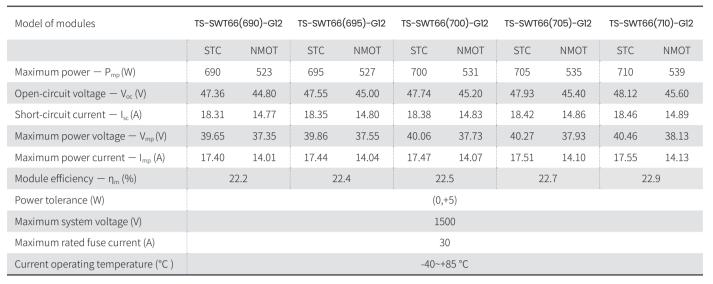
COMPREHENSIVE CERTIFICATES



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



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

STRUCTURAL CHARACTERISTICS

Module dimensions (L*W*H)	2384 x 1303 x 35 mm	
Weight	33.9±1kg	
Number of cells	132 cells	
Cell	N-type monocrystalline	
Glass	Tempered, 3.2 mm AR, high transmittance, low iron	
Frame	Black GFRP(Glass Fiber Reinforced Polymer) (Multiple colors available)	
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

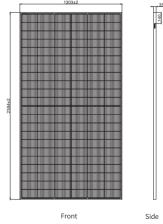
132 cells

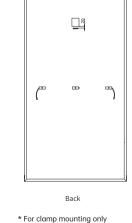
Temperature coefficient (P _{max})	-0.30 %/°C
Temperature coefficient (V_{oc})	-0.28 %/°C
Temperature coefficient (I_{sc})	+0.04 %/°C
Nominal Module Operating Temperature	43±2℃

PACKAGING CONFIGURATION

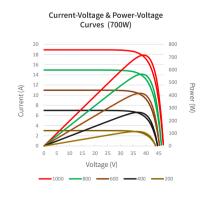
Container	40HQ
Quantity/pallet	31
Pallets/container	18
Quantity/container	558

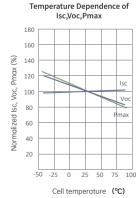
MODULE DIMENSIONS (MM)





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





Web: www.thornovasolar.com E-mail: info@thornovasolar.com

* The parameters delineated within this datasheet, both technical and monetary, may exhibit variations contingent upon the region. Thornova Solar provides no warranty as to their absolute accuracy. Owing to our unceasing commitment to innovation, research, development, and product enhancement, Thornova Solar retains the discretion to amend any information encapsulated in this datasheet without any preceding notification. Clients are urged to procure the most recent treatation of this datasheet and incorporate it as an intrinsic component of the legally binding agreement ratified by both parties. The English restaint lack precedeng 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 restaint ball take precedeng notifications of the English version shall take precedend in other languages, the stipulations of the English version shall take precedend on their actuations of the English version shall take precedend on their languages.



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