







TOPCON MONOCRYSTALLINE

132TN12







High Conversion Efficiency

High panel efficiency to guarantee high power output



Self-Cleaning And Anti-Reflection Glass

Coating glass for self-cleaning reduces surface dust



Outstanding Low Irradiation Glass

Outstanding panel performance even in weak light conditions



Excellent Durability

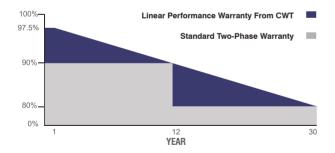
Wind load up to 2400 Pa, Snow load up to 5400 Pa



0~+5W Positive Power Tolerance



Easy Installation

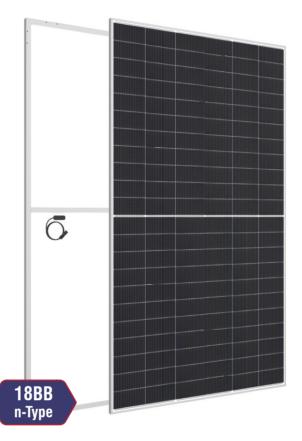




30 Years Performance Warranty



12 Years Product Warranty



CWT715-132TN12 715 Wp

CWT710-132TN12 710 Wp

CWT705-132TN12 705 Wp

CWT700-132TN12 700 Wp

CWT695-132TN12 695 Wp

CWT690-132TN12 690 Wp

CWT685-132TN12 685 Wp

CWT680-132TN12 680 Wp













ELECTRICAL CHARACTERISTICS

Model Type	CWT680 132TN12	CWT685 132TN12	CWT690 132TN12	CWT695 132TN12	CWT700 132TN12	CWT705 132TN12	CWT710 132TN12	CWT715 132TN12
Peak Power (Pmax)	680 Wp	685 Wp	690 Wp	695 Wp	700 Wp	705 Wp	710 Wp	715 Wp
Module Efficiency (%)	21.89	22.05	22.21	22.37	22.53	22.70	22.86	23.02
Maximum Power Voltage (Vmp)	38.90	39.10	39.30	39.50	39.70	39.90	40.10	40.30
Maximum Power Current (Imp)	17.49	17.52	17.56	17.60	17.64	17.67	17.71	17.75
Open Circuit Voltage (Voc)	47.00	47.20	47.40	47.60	47.80	48.00	48.20	48.40
Short Circuit Current (Isc)	18.26	18.32	18.37	18.42	18.47	18.52	18.57	18.62
Power Tolerance		0~+5W						
Maximum System Voltage		1500V DC						
Operating Temperature		-40 ~ +85°C						
Protection Class		Class II						
Maximum Series Fuse Rating		25A						

MECHANICAL SPECIFICATIONS

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Cell Dimensions(mm/inch)	210x105 / 8.27x4.14
Cells per Module(pcs)	132 (22x6)
Weight(kg/lbs)	34.5 / 76.06
Panel Dimensions(mm/inch)	2384x1303x35 / 93.86x51.30x1.38
Max. Wind/Snow Load(Pa)/(lb/ft²)	(2400 / 5400) / (50 / 212)
Junction Box	IP68
Junction Box Cable Length(mm/inch)	350-1600 / 13.78-63.00
Frame Color	Silver / Black

TEMPERATURE CHARACTERISTICS

Temp. Coeff. of (Isc)	0.040%/°C		
Temp. Coeff. of (V₀c)	-0.26%/°C		
Temp. Coeff. of (Pmax)	-0.31%/°C		

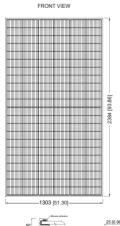
PACKING CONFIGURATION

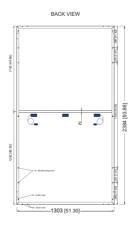
Container	40' HQ
Pieces per Pallet	31
Pieces Per Container	527
Pallet Per Container	17

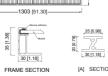
PHYSICAL CHARACTERISTICS

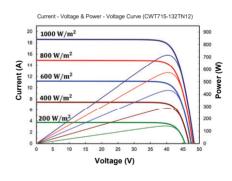


ELECTRICAL CHARACTERISTICS









the solar panels and the mounting surface. Improper installations are hazardous and may spark a fire. Solar panels must not be mounted on structures and roofs which are made of not fire-resistant materials such as plastic layer, transparent plastic, PVC or similar materials without any fire-protection layer. Usage and installation not in accordance with the guidelines as outlined in the installation manual will terminate the warranty. Please refer to the installation manual and the warranty documents for further details.





^{*} The specifications are obtained under the standard test conditions: 1000W/m2 solar irradiance, 1.5 Air Mass and cell temperature of 25°C. Measurement uncertainty for all panels is 3%. The actual transactions will be subject to the contracts. These parameters are for reference only and it is not a part of the contracts. The technical specifications in this document may vary. For more information, refer to the "Installation Manual".

* For roof, facades and installations on similar surfaces, solar panels should be mounted over a fire-resistant covering suitable for this application, with adequate ventilation between the back of