

Half-Cut



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

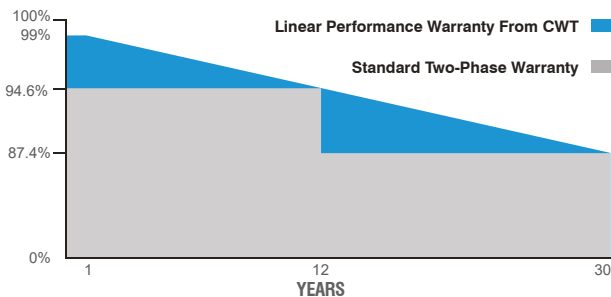
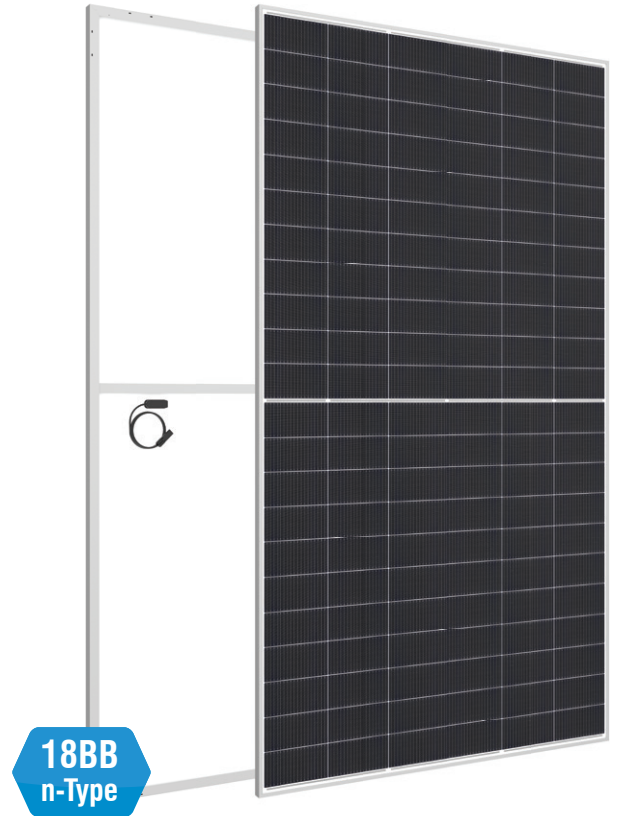
Wind load up to 2400 Pa, Snow load up to 5400 Pa



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



IEC 61215, IEC 61730-1, IEC 61730-2
ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

TOPCON MONOCRYSTALLINE • 132TN12 Half-Cut

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)	39.50	39.70	39.90	40.10	40.30	40.50	40.70	40.90
Maximum Power Current (Imp)	17.22	17.25	17.29	17.33	17.37	17.41	17.45	17.49
Open Circuit Voltage (Voc)	46.10	46.30	46.50	46.70	46.90	47.10	47.30	47.50
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							
Fire Safety Class	Class II							
Maximum Series Fuse Rating	30A							

MECHANICAL SPECIFICATIONS

Cell Dimensions(mm)	210x105
Cells per Module(pcs)	132 (6x22)
Weight(kg)	34.5
Panel Dimensions(mm)	2384x1303x35
Max. Wind/Snow Load(Pa)	2400/5400
Junction Box	IP68
Junction Box Cable Length(mm)	350-1600

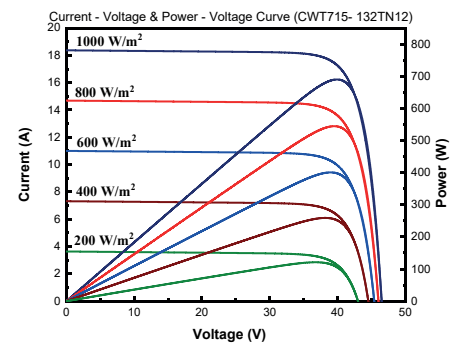
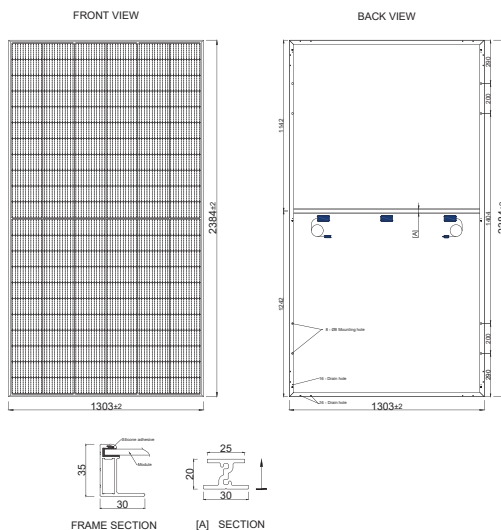
TEMPERATURE CHARACTERISTICS

Temp. Coeff. of (Isc)	0.040%/°C
Temp. Coeff. of (Voc)	-0.260%/°C
Temp. Coeff. of (Pmax)	-0.320%/°C

PACKING CONFIGURATION

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

PHYSICAL CHARACTERISTICS



* 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 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.

* CW Enerji reserves the right to change the specification of products without prior notice.

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