

BIFACIAL TOPCON MONOCRYSTALLINE • 132TNB12

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



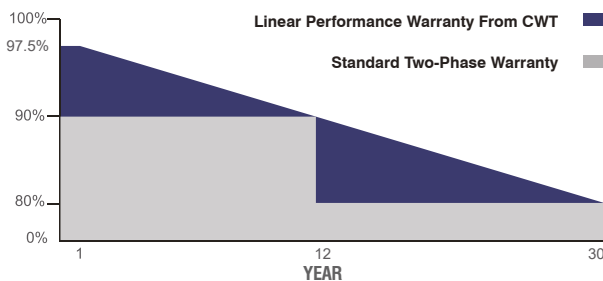
Twice EVA Laminated Double Glass



**DOUBLE
GLASS**



**18BB
n-Type**



 30 Years Performance Warranty  12 Years Product Warranty

CWT715-132TNB12 715 Wp
 CWT710-132TNB12 710 Wp
 CWT705-132TNB12 705 Wp
 CWT700-132TNB12 700 Wp
 CWT695-132TNB12 695 Wp
 CWT690-132TNB12 690 Wp
 CWT685-132TNB12 685 Wp
 CWT680-132TNB12 680 Wp



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

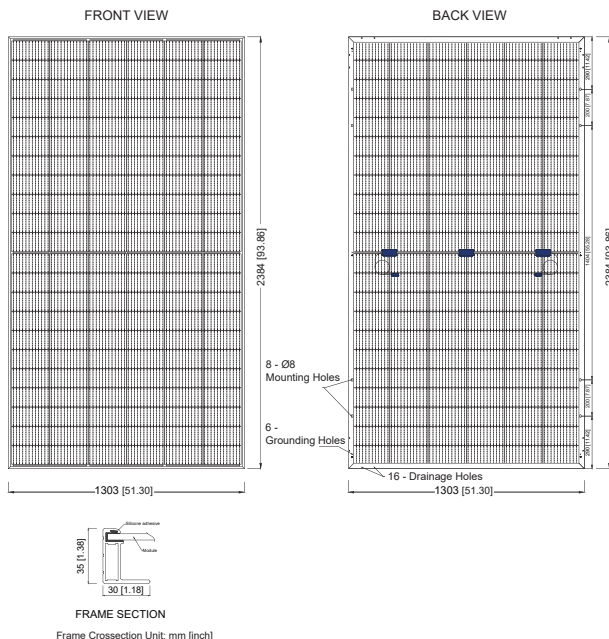
ELECTRICAL CHARACTERISTICS

Model Type	CWT680 132TNB12	CWT685 132TNB12	CWT690 132TNB12	CWT695 132TNB12	CWT700 132TNB12	CWT705 132TNB12	CWT710 132TNB12	CWT715 132TNB12
Peak Power (P _{max})	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 (V _{mp})	39.50	39.70	39.90	40.10	40.30	40.50	40.70	40.90
Maximum Power Current (I _{mp})	17.22	17.25	17.29	17.33	17.37	17.41	17.45	17.49
Open Circuit Voltage (V _{oc})	46.10	46.30	46.50	46.70	46.90	47.10	47.30	47.50
Short Circuit Current (I _{sc})	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

Cell Dimensions(mm/inch)	210x105 / 8.27x4.14
Cells per Module(pcs)	132 (22x6)
Weight(kg/lbs)	39.5 / 87.09
Panel Dimensions(mm/inch)	2384x1303x35 / 93.85 x51.30x1.38
Max. Wind/Snow Load(Pa)/(lb/ft ²)	(2400 / 5400) / (50 / 212)
Junction Box	IP68
Junction Box Cable Length(mm/inch)	350-1600 / 13.78-63.00
Glass Thickness(mm/inch)	2.0x2.0 / 0.08x0.08
Frame Color	Silver / Black

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.

REAR SIDE POWER GAIN

(715W Front Power Referenced)

Rear Side Power Gain	5%	10%	15%	20%	25%
Peak Power (P _{max})	750.75	786.50	822.25	858.00	893.75
Short Circuit Current (I _{sc})	19.50	20.40	21.29	22.19	23.06
Open Circuit Voltage (V _{oc})	47.58	47.66	47.73	47.80	47.87
Maximum Power Current (I _{mp})	18.34	19.20	20.05	20.90	21.75
Maximum Power Voltage (V _{mp})	40.94	40.99	41.03	41.06	41.09

TEMPERATURE CHARACTERISTICS

Temp. Coeff. of (I _{sc})	0.040%/°C
Temp. Coeff. of (V _{oc})	-0.270%/°C
Temp. Coeff. of (P _{max})	-0.350%/°C

PACKING CONFIGURATION

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

ELECTRICAL CHARACTERISTICS

