







WATER PROOF, SUITABLE FOR ROOFTOP **SOLAR PANEL FRAME SYSTEM**

BIFACIAL TOPCON MONOCRYSTALLINE



Half Cut

SOLAR ROOF TILE



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

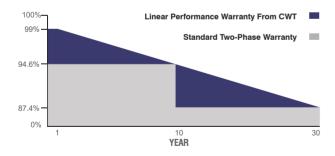


0~+5W Positive Power Tolerance



Easy Installation





CWT450-108TNBCK10 450 Wp CWT445-108TNBCK10 445 Wp CWT440-108TNBCK10 440 Wp CWT435-108TNBCK10 435 Wp



30 Years Performance Warranty



10 Years Product Warranty









BIFACIAL



ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

BIFACIAL TOPCON MONOCRYSTALLINE

108TNBCK10



ELECTRICAL CHARACTERISTICS

Model Type	CWT435 108TNBCK10	CWT440 108TNBCK10	CWT445 108TNBCK10	CWT450 108TNBCK10
Peak Power (Pmax)	435 Wp	440 Wp	445 Wp	450 Wp
Module Efficiency (%)	22.28	22.53	22.79	23.04
Maximum Power Voltage (Vmp)	32.54	32.74	32.94	33.14
Maximum Power Current (Imp)	13.37	13.44	13.51	13.58
Open Circuit Voltage (Voc)	38.51	38.71	38.91	39.11
Short Circuit Current (Isc)	14.17	14.24	14.31	14.38
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)	182 x 91 / 7.16x 3.58
Cells per Module(pcs)	108 (6x18)
Weight(kg/lbs)	23.2 / 51.15
Panel Dimensions(mm/inch)	1762x1165.1 / 69.37x45.87
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)	-0.260%/°C
Temp. Coeff. of (Pmax)	-0.30%/°C

PHYSICAL CHARACTERISTICS

Rear Side Material

Purlins Spacing(mm/inch)

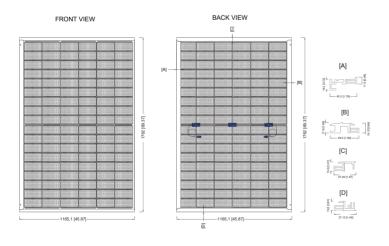


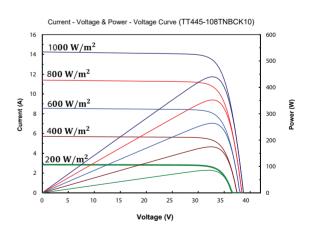
Transparent Backsheet

1122 / 44.17



ELECTRICAL 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

^{*} For roof, tacades 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.

