







BIFACIAL TOPCON MONOCRYSTALLINE 108TNB10

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

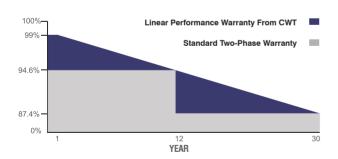
Wind load up to 2400 Pa, Snow load up to 5400 Pa



0~+5W Positive Power Tolerance



Easy Installation



30 Years Performance Warranty



12 Years Product Warranty



CWT460-108TNB10 460 Wp

CWT455-108TNB10 455 Wp

CWT450-108TNB10 450 Wp











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

ELECTRICAL CHARACTERISTICS

Model Type	CWT450 108TNB10	CWT455 108TNB10	CWT460 108TNB10
Peak Power (Pmax)	450 Wp	455 Wp	460 Wp
Module Efficiency (%)	23.04	23.30	23.56
Maximum Power Voltage (Vmp)	33.14	33.34	33.54
Maximum Power Current (Imp)	13.58	13.65	13.72
Open Circuit Voltage (Voc)	39.31	39.51	39.71
Short Circuit Current (Isc)	14.38	14.45	14.53
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)

Panel Dimensions(mm/inch) Max. Wind/Snow Load(Pa)/(lb/ft2)

Junction Box Cable Length(mm/inch)

Cells per Module(pcs)

Weight(kg/lbs)

Junction Box

Frame Color

Rear Side Material



182 x 91 / 7.16x 3.58

108 (6x18)

21.45 / 47.29 1722x1134x30 / 67.80x44.64x1.18

(2400 / 5400) / (50 / 212)

IP68

350-1600 / 13.78-63.00

Silver / Black

Transparent Backsheet

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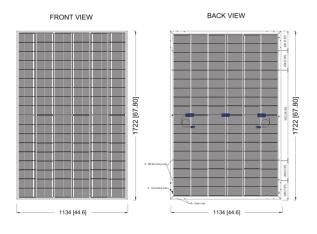
REARSIDE POWER GAIN

(450W Front Power Referenced)

Rear Side Power Gain	5%	10%	15%	20%	25%
Peak Power (Pmax)	472.50	495.00	517.50	540.00	562.50
Short Circuit Current (Isc)	15.10	15.82	16.54	17.26	17.98
Open Circuit Voltage (Voc)	41.07	43.02	44.98	46.93	48.89
Maximum Power Current (Imp)	14.26	14.94	15.62	16.30	16.98
Maximum Power Voltage (Vmp)	34.80	36.45	38.11	39.77	41.43

PHYSICAL CHARACTERISTICS





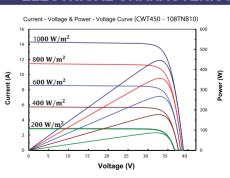
TEMPERATURE CHARACTERISTICS

Temp. Coeff. of (Isc)	0.040%/°C		
Temp. Coeff. of (V₀c)	-0.260%/°C		
Temp. Coeff. of (Pmax)	-0.30%/°C		

PACKING CONFIGURATION

Container	40' GP
Pieces per Pallet	35
Pieces Per Container	910
Pallet Per Container	26

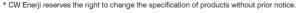
ELECTRICAL CHARACTERISTICS



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 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 roots 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.





FRAME SECTION Frame Crossection Unit: mm [inch]