







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



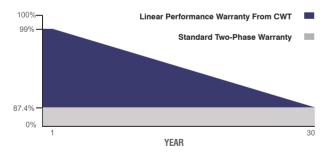
0~+5W Positive Power Tolerance



Easy Installation



Twice EVA Laminated Double Glass



30 Years Performance Warranty



30 Years Product Warranty



CWT460-108TNB10 460 Wp

CWT455-108TNB10 455 Wp

CWT450-108TNB10 450 Wp









GLASS



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)

	*	
*		3
		-

182 x 91 / 7.16x 3.58

REARSIDE POWER GAIN

(450W Front Power Referenced)

Temp. Coeff. of (Isc)

Temp. Coeff. of (Voc)

Temp. Coeff. of (Pmax)

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

TEMPERATURE CHARACTERISTICS

PACKING CONFIGURATION

0.040%/°C

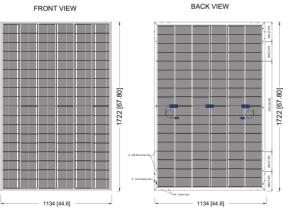
-0.260%/°C

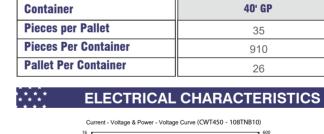
-0.30%/°C

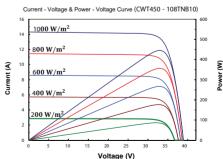
Cells per Module(pcs)	108 (6x18)	
Weight(kg/lbs)	24.0 / 52.91	
Panel Dimensions(mm/inch)	1722x1134x30 / 67.80x44.64x1.18	
Max. Wind/Snow Load(Pa)/(lb/ft²)	(2400 / 5400) / (50 / 212)	
Junction Box	IP68	
Junction Box Cable Length(mm/inch)	350-1600 / 13.78-63.00	
Glass Thickness(mm/inch)	2.0x2.0 / 0.08x0.08	
Frame Color	Silver / Black	

PHYSICAL CHARACTERISTICS





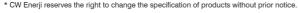




The specifications are obtained under the standard test conditions: 1000W/m2 solar irradiance, 1.5 Air Mass and cell temperature of 25°C. Measurement uncertainty for all panels is 3%. The actual transactions will be subject to the contracts. These parameters are for reference only and it is not a part 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.





30 [1.18] FRAME SECTION

ection Unit: mm [inch]