

CWT460-108TNB10 460 Wp CWT455-108TNB10 455 Wp CWT450-108TNB10 450 Wp



30

30 Years Product Warranty

Standard Two-Phase Warranty

YEAR

30 Years Performance Warranty

87.4% - 0%

 (\checkmark)

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

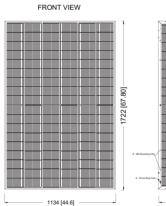
ELECTRICAL CHARACTERISTICS

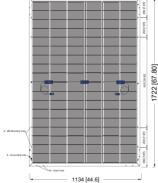
Model Type	CWT450 108TNB10	CWT455 108TNB10	CWT460 108TNB10
Peak Power (Pmax)	450 Wp	455 Wp	460 Wp
Module Efficiency (%)	23.04	23.30	23.56
Maximum Power Voltage (Vmp)	33.14	33.34	33.54
Maximum Power Current (Imp)	13.58	13.65	13.72
Open Circuit Voltage (Voc)	39.31	39.51	39.71
Short Circuit Current (Isc)	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)	182 x 91 / 7.16x 3.58		
Cells per Module(pcs)	108 (6x18)		
Weight(kg/lbs)	(30 mm) 24.0 / 52.91 (35 mm) 25.0 / 55.11		
Panel Dimensions(mm/inch)	1722x1134x30 / 67.80x44.64x1.18 1722x1134x35 / 67.80x44.64x1.37		
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





BACK VIEW









REARSIDE POWER GAIN

(450W Front Power Referenced)

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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)		14.94		16.30	
Maximum Power Voltage (Vmp)	34.80	36.45	38.11	39.77	41.43

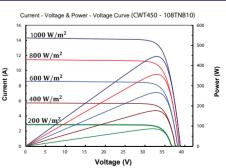
TEMPERATURE CHARACTERISTICS

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

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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-resist-ant 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.

CW Energy