

TOPCON MONOCRYSTALLINE • 108TN10

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



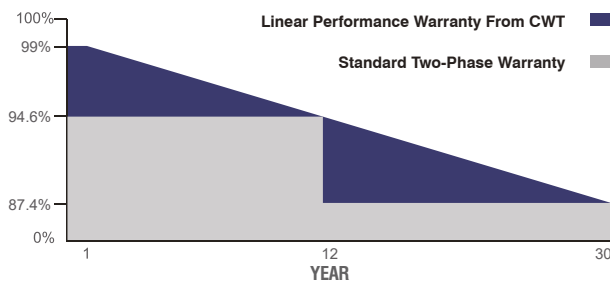
0~+5W Positive Power Tolerance



Easy Installation



16BB
n-Type



CWT450-108TN10 450 Wp

CWT445-108TN10 445 Wp

CWT440-108TN10 440 Wp

CWT435-108TN10 435 Wp

 30 Years Performance Warranty  12 Years Product Warranty



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

ELECTRICAL CHARACTERISTICS

| Model Type | CWT435 108TN10 | CWT440 108TN10 | CWT445 108TN10 | CWT450 108TN10 |
|--|-------------------|-------------------|-------------------|-------------------|
| Peak Power (P _{max}) | 435 Wp | 440 Wp | 445 Wp | 450 Wp |
| Module Efficiency (%) | 22.28 | 22.53 | 22.79 | 23.04 |
| Maximum Power Voltage (V _{mp}) | 32.54 | 32.74 | 32.94 | 33.14 |
| Maximum Power Current (I _{mp}) | 13.37 | 13.44 | 13.51 | 13.58 |
| Open Circuit Voltage (V _{oc}) | 38.51 | 38.71 | 38.91 | 39.11 |
| Short Circuit Current (I _{sc}) | 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) | 21.45 / 47.29 |
| Panel Dimensions(mm/inch) | 1722x1134x30 / 67.80x44.64x1.18 |
| 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 |
| Frame Color | Silver / Black |

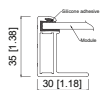
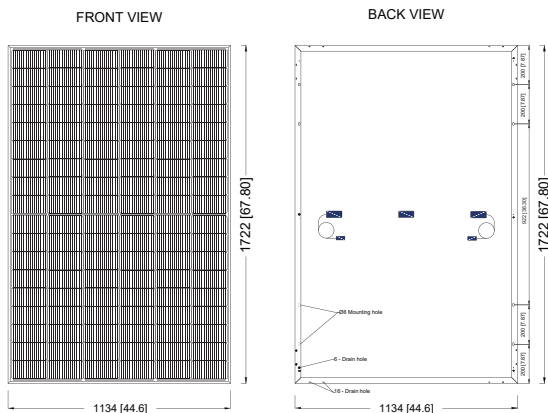
TEMPERATURE CHARACTERISTICS

| | |
|-------------------------------------|------------|
| Temp. Coeff. of (I _{sc}) | 0.040%/°C |
| Temp. Coeff. of (V _{oc}) | -0.260%/°C |
| Temp. Coeff. of (P _{max}) | -0.30%/°C |

PACKING CONFIGURATION

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

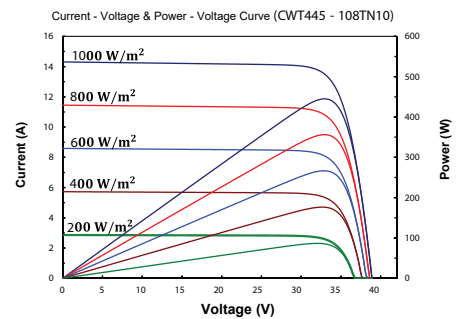
PHYSICAL CHARACTERISTICS



FRAME SECTION

Frame Cross-section Unit: mm [inch]

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 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.