

WATER PROOF, SUITABLE FOR ROOFTOP
SOLAR PANEL FRAME SYSTEM

SOLAR ROOF TILE

TOPCON N-TYPE • 144TNBCK10

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



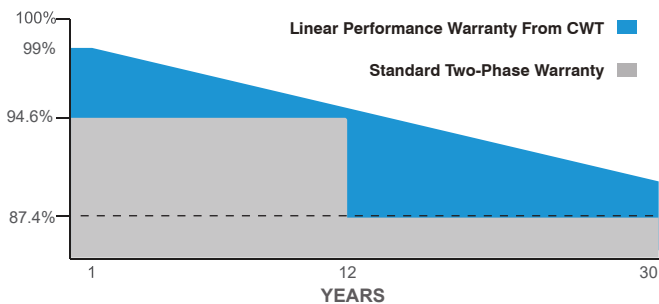
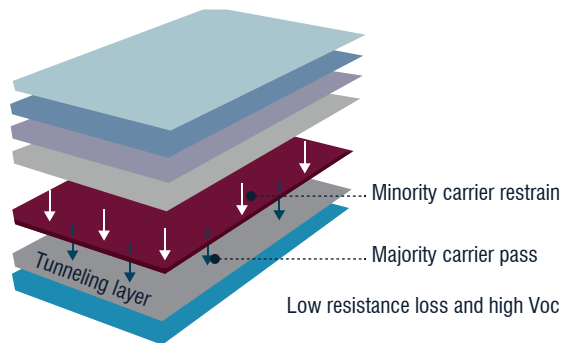
0~ +5W Positive Power Tolerance



Easy Installation



**16BB
n-Type**



- CWT595-144TNBCK10 595 Wp
- CWT600-144TNBCK10 600 Wp
- CWT605-144TNBCK10 605 Wp
- CWT610-144TNBCK10 610 Wp
- CWT615-144TNBCK10 615 Wp
- CWT620-144TNBCK10 620 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	CWT595 144TNBCK10	CWT600 144TNBCK10	CWT605 144TNBCK10	CWT610 144TNBCK10	CWT615 144TNBCK10	CWT620 144TNBCK10
Peak Power (Pmax)	595 Wp	600 Wp	605 Wp	610 Wp	615 Wp	620 Wp
Module Efficiency	23.03	23.23	23.42	23.61	23.81	24.00
Maximum Power Voltage (Vmp)	43.55	43.75	43.95	44.15	44.35	44.55
Maximum Power Current (Imp)	13.67	13.72	13.77	13.82	13.87	13.92
Open Circuit Voltage (Voc)	52.18	52.38	52.58	52.78	52.98	53.18
Short Circuit Current (Isc)	14.36	14.42	14.48	14.54	14.60	14.66
Power Tolerance	0~+5W					
Maximum System Voltage	1500V DC					
Operating Temperature	-40 ~ +85°C					
Protection Class	Class II					
Maximum Series Fuse Rating	30A					

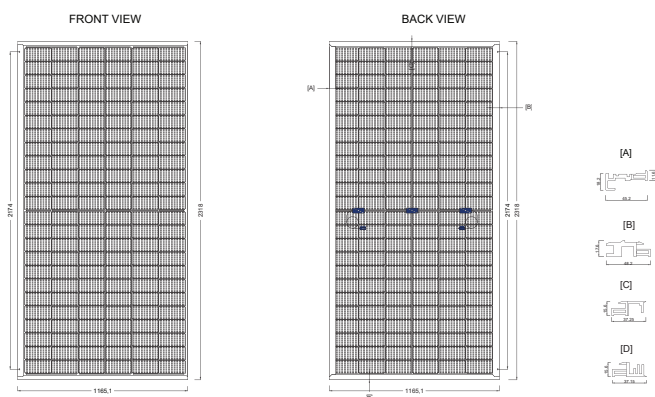
MECHANICAL SPECIFICATIONS

Cell Dimensions(mm)	182,2 x 91,8
Cells per Module(pcs)	144 (6x24)
Weight(kg)	35.6
Panel Dimensions(mm)	2318x1165.1
Max. Wind/Snow Load(Pa)	2400/5400
Junction Box	IP68
Junction Box Cable Length(mm)	350-1600
Purlins Spacing(mm)	1291

TEMPERATURE CHARACTERISTICS

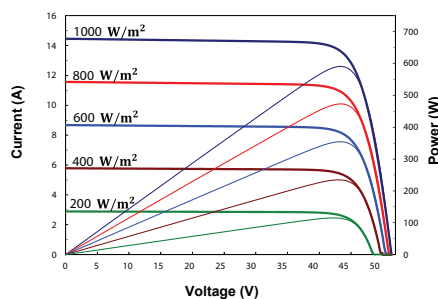
Temp. Coeff. of (Isc)	0.040%/°C
Temp. Coeff. of (Voc)	-0.260%/°C
Temp. Coeff. of (Pmax)	-0.30%/°C

PHYSICAL CHARACTERISTICS



ELECTRICAL CHARACTERISTICS

Current - Voltage & Power - Voltage Curve (CWT595 - 144TNBCK10)



* 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.