

### BIFACIAL TOPCON MONOCRYSTALLINE • 108TNB10

## Half Cut

DOUBLE GLASS



#### Reliability Tested & Verified

High Performance Durability Under Extended Stress



#### 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



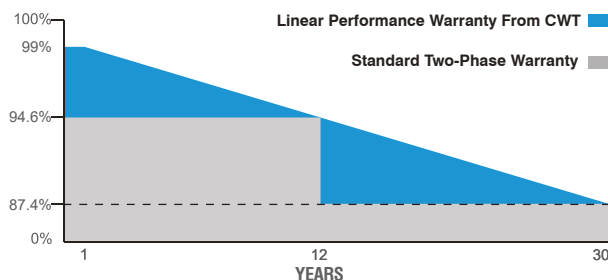
#### 0~+5Wp Positive Power Tolerance



#### Easy Installation



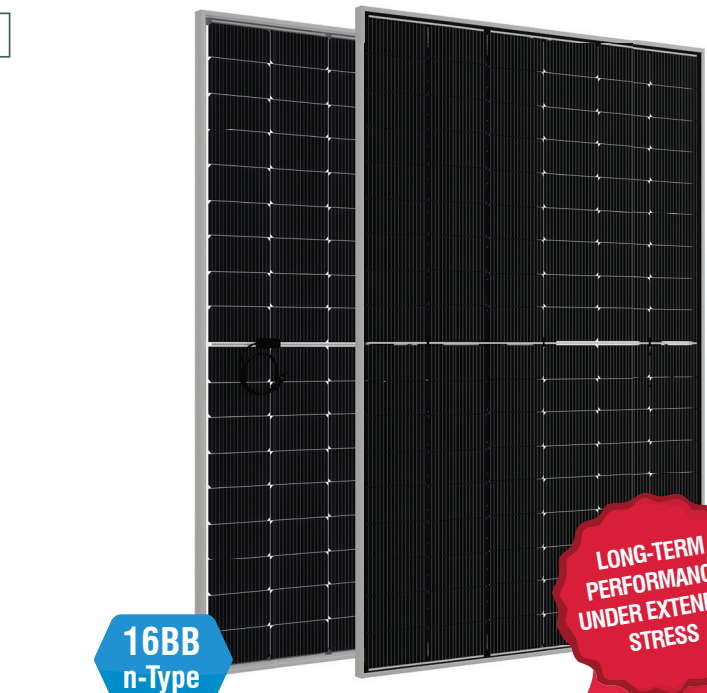
#### Double Sided Power Generation



30 Years Performance Warranty

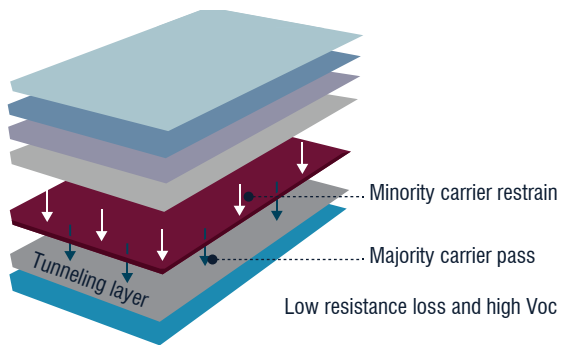


12 Years Product Warranty



16BB  
n-Type

LONG-TERM  
PERFORMANCE  
UNDER EXTENDED  
STRESS



CWT450-108TNB10 450 Wp  
CWT445-108TNB10 445 Wp  
CWT440-108TNB10 440 Wp  
CWT435-108TNB10 435 Wp  
CWT430-108TNB10 430 Wp  
CWT425-108TNB10 425 Wp  
CWT420-108TNB10 420 Wp

30  
YEARS  
PERFORMANCE  
WARRANTY



SOMPO



IEC 61215, IEC 61730-1, IEC 61730-2 IEC 63209-1  
ISO 9001:2015, ISO 14001:2015, ISO 45001:2018  
UL 61730-1, UL 61730-2

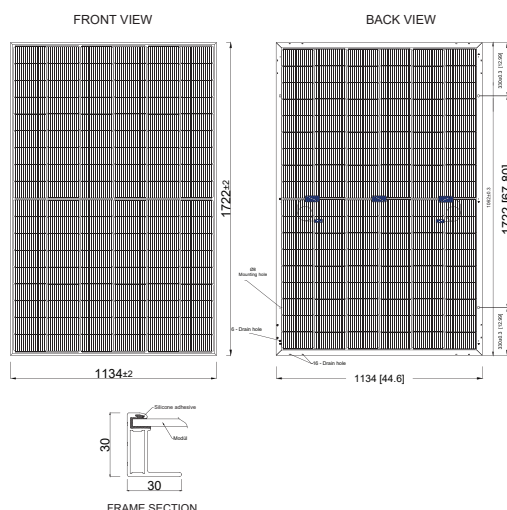
## ELECTRICAL CHARACTERISTICS

Model Type	CWT420 108TNB10	CWT425 108TNB10	CWT430 108TNB10	CWT435 108TNB10	CWT440 108TNB10	CWT445 108TNB10	CWT450 108TNB10
Peak Power (P <sub>max</sub> )	420 Wp	425 Wp	430 Wp	435 Wp	440 Wp	445 Wp	450 Wp
Module Efficiency	21.51	21.76	22.02	22.28	22.53	22.79	23.04
Maximum Power Voltage (V <sub>mp</sub> )	31.94	32.14	32.34	32.54	32.74	32.94	33.14
Maximum Power Current (I <sub>mp</sub> )	13.15	13.23	13.30	13.37	13.44	13.51	13.58
Open Circuit Voltage (V <sub>oc</sub> )	38.11	38.31	38.51	38.71	38.91	39.11	39.31
Short Circuit Current (I <sub>sc</sub> )	13.95	14.03	14.10	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						
Fire Class	Type 29						
Maximum Series Fuse Rating	25A						

## MECHANICAL SPECIFICATIONS

Cell Dimensions(mm)	182,2x91,8
Cells per Module(pcs)	108 (6x18)
Weight(kg)	25.0
Panel Dimensions(mm)	1722x1134x30
Max. Wind/Snow Load(Pa)	2400/5400
Junction Box	IP68
Junction Box Cable Length(mm)	300-1600
Glass Thickness (mm)	2.0 / 2.0

## PHYSICAL CHARACTERISTICS



## TEMPERATURE CHARACTERISTICS

(435W Front Power Referenced)

Rear Side Power Gain	5%	10%	15%	20%	25%
Peak Power (P <sub>max</sub> )	456,75	478,50	500,25	522	543,75
Short Circuit Current (I <sub>sc</sub> )	14,88	15,59	16,30	17,00	17,71
Open Circuit Voltage (V <sub>oc</sub> )	40,65	42,58	44,52	46,45	48,39
Maximum Power Current (I <sub>mp</sub> )	14,04	14,71	15,38	16,04	16,71
Maximum Power Voltage (V <sub>mp</sub> )	34,17	35,80	37,42	39,05	40,68

## TEMPERATURE CHARACTERISTICS

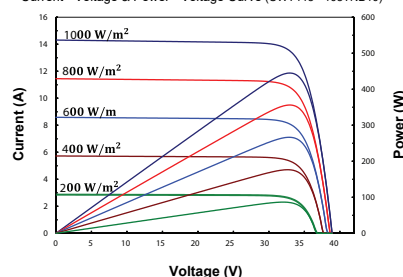
Temp. Coeff. of (I <sub>sc</sub> )	0.040%/°C
Temp. Coeff. of (V <sub>oc</sub> )	-0.260%/°C
Temp. Coeff. of (P <sub>max</sub> )	-0.30%/°C

## PACKING CONFIGURATION

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

## ELECTRICAL CHARACTERISTICS

Current - Voltage &amp; Power - Voltage Curve (CWT445 - 108TNB10)



\* The specifications are obtained under the standard test conditions: 1000W/m<sup>2</sup> 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.

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