

## TOPCON MONOCRYSTALLINE • 156TNFB10

# Half Cut

Multi-BB

## BLACK SERIES



### 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



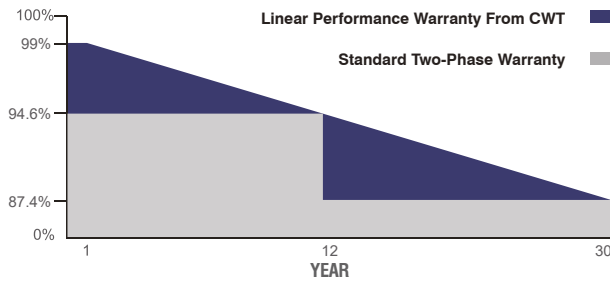
### Easy Installation



black frame

**BLACK  
SERIES**

**16BB  
n-Type**



 30 Years Performance Warranty  12 Years Product Warranty

- CWT635-156TNFB10 635 Wp
- CWT630-156TNFB10 630 Wp
- CWT625-156TNFB10 625 Wp
- CWT620-156TNFB10 620 Wp
- CWT615-156TNFB10 615 Wp



ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

ELECTRICAL CHARACTERISTICS

Model Type	CWT615 156TNFB10	CWT620 156TNFB10	CWT625 156TNFB10	CWT630 156TNFB10	CWT635 156TNFB10
Peak Power (P <sub>max</sub> )	615 Wp	620 Wp	625 Wp	630 Wp	635 Wp
Module Efficiency (%)	22.00	22.20	22.40	22.50	22.70
Maximum Power Voltage (V <sub>mp</sub> )	45.66	45.76	45.86	45.96	46.06
Maximum Power Current (I <sub>mp</sub> )	13.47	13.55	13.63	13.71	13.79
Open Circuit Voltage (V <sub>oc</sub> )	55.43	55.58	55.73	55.88	56.03
Short Circuit Current (I <sub>sc</sub> )	14.19	14.26	14.33	14.40	14.47
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)	156 (6x26)
Weight(kg/lbs)	31.10 / 68.56
Panel Dimensions(mm/inch)	2465x1134x35 / 97.04x44.64x1.37
Max. Wind/Snow Load(Pa)/(lb/ft <sup>2</sup> )	(2400 / 5400) / (50 / 212)
Junction Box	IP68
Junction Box Cable Length(mm/inch)	350-1600 / 13.78-63.00
Frame Color	Black

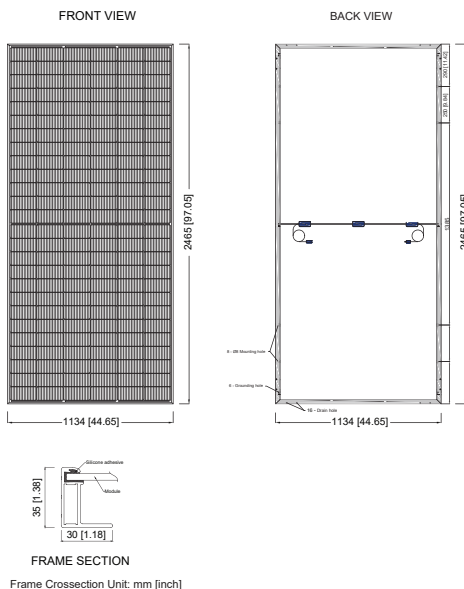
TEMPERATURE CHARACTERISTICS

Temp. Coeff. of (I <sub>sc</sub> )	0.046%/°C
Temp. Coeff. of (V <sub>oc</sub> )	-0.250%/°C
Temp. Coeff. of (P <sub>max</sub> )	-0.290%/°C

PACKING CONFIGURATION

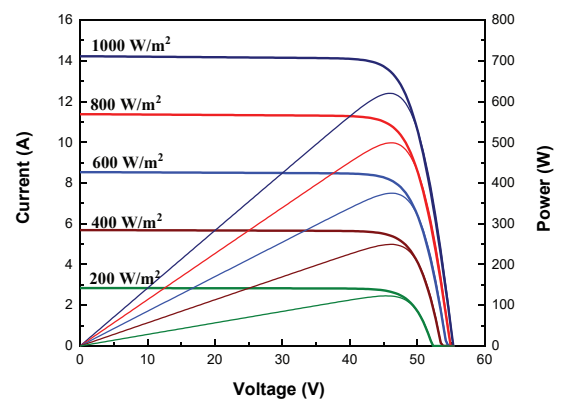
Container	40' HQ
Pieces per Pallet	31
Pieces Per Container	496
Pallet Per Container	16

PHYSICAL CHARACTERISTICS



ELECTRICAL CHARACTERISTICS

Current - Voltage & Power - Voltage Curve (CWT620-156TNFB10)



\* 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.