







TOPCON MONOCRYSTALLINE 120TNFB12

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



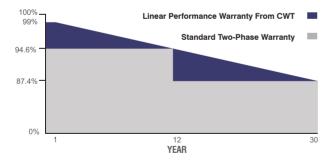
Easy Installation

BLACK SERIES





18BB n-Type



30 Years Performance Warranty



12 Years Product Warranty

CWT645-120TNFB12 645 Wp CWT640-120TNFB12 640 Wp

CWT635-120TNFB12 635 Wp

CWT630-120TNFB12 630 Wp

CWT625-120TNFB12 625 Wp

CWT620-120TNFB12 620 Wp

CWT615-120TNFB12 615 Wp













ELECTRICAL CHARACTERISTICS

| Model Type | CWT615 120TNFB12 | CWT620 120TNFB12 | CWT625 120TNFB12 | CWT630 120TNFB12 | CWT635 120TNFB12 | CWT640 120TNFB12 | CWT645 120TNFB12 |
|-----------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Peak Power (Pmax) | 615 Wp | 620 Wp | 625 Wp | 630 Wp | 635 Wp | 640 Wp | 645 Wp |
| Module Efficiency (%) | 21.73 | 21.95 | 22.08 | 22.26 | 22.44 | 22.65 | 22.79 |
| Maximum Power Voltage (Vmp) | 35.56 | 35.76 | 35.96 | 36.16 | 36.36 | 36.56 | 36.76 |
| Maximum Power Current (Imp) | 17.30 | 17.34 | 17.39 | 17.43 | 17.45 | 17.51 | 17.55 |
| Open Circuit Voltage (Voc) | 42.78 | 42.98 | 43.18 | 43.38 | 43.58 | 43.78 | 43.98 |
| Short Circuit Current (Isc) | 18.24 | 18.30 | 18.35 | 18.40 | 18.46 | 18.52 | 18.57 |
| 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) | 210x105 / 8.27x4.14 | | |
|------------------------------------|---------------------------------|--|--|
| Cells per Module(pcs) | 120 (6x20) | | |
| Weight(kg/lbs) | 31.0 / 68.35 | | |
| Panel Dimensions(mm/inch) | 2172x1303x35 / 85.51x51.30x1.37 | | |
| 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 | | |
| Frame Color | Black | | |

| Temp. Coeff. of (Isc) | 0.040%/°C | | |
|------------------------|------------|--|--|
| Temp. Coeff. of (Voc) | -0.260%/°C | | |
| Temp. Coeff. of (Pmax) | -0.320%/°C | | |

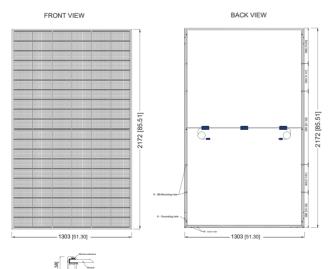
PACKING CONFIGURATION

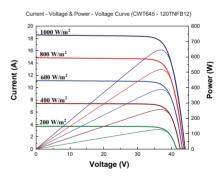
| Container | 40' HQ |
|----------------------|--------|
| Pieces per Pallet | 31 |
| Pieces Per Container | 527 |
| Pallet Per Container | 17 |

PHYSICAL CHARACTERISTICS



ELECTRICAL CHARACTERISTICS





* CW Enerji reserves the right to change the specification of products without prior notice.



30 [1.18] FRAME SECTION

^{*} 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

^{*} 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 an injer-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.