

PERC MONOCRYSTALLINE • 120PM12

# 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

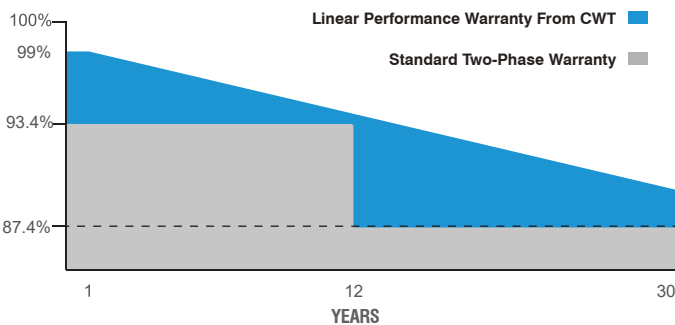
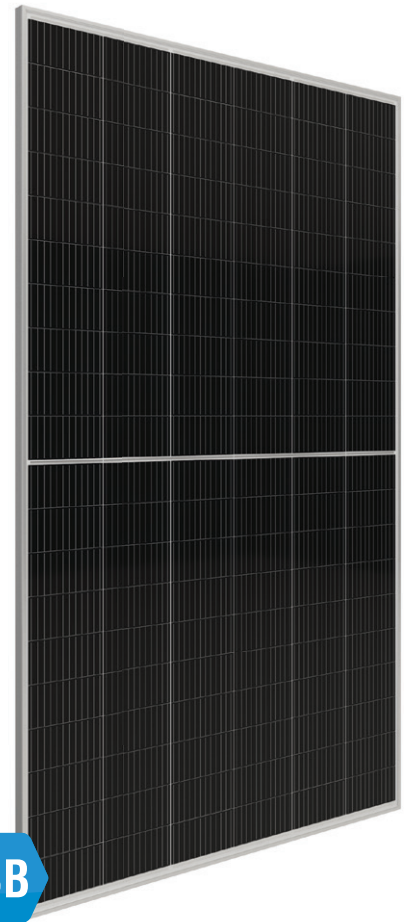
Wind load up to 2400 Pa, Snow load up to 5400 Pa



### 0~+5W Positive Power Tolerance



### Easy Installation



✓ 30 Years Performance Warranty ✓ 12 Years Product Warranty

CWT610-120PM12 610 Wp

CWT605-120PM12 605 Wp

CWT600-120PM12 600 Wp

CWT595-120PM12 595 Wp

CWT590-120PM12 590 Wp

**30**  
YEARS  
PERFORMANCE  
WARRANTY



IEC 61215, IEC 61730-1, IEC 61730-2  
IEC 62804 PID (POTENTIAL INDUCED DEGRADATION)  
IEC 61701 SALT MIST CORROSION  
IEC 62716 AMMONIA CORROSION  
ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

## ELECTRICAL CHARACTERISTICS

| Model Type                  | CWT590<br>120PM12 | CWT595<br>120PM12 | CWT600<br>120PM12 | CWT605<br>120PM12 | CWT610<br>120PM12 |
|-----------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Peak Power (Pmax)           | 590 Wp            | 595 Wp            | 600 Wp            | 605 Wp            | 610 Wp            |
| Module Efficiency (%)       | 20.85             | 21.02             | 21.20             | 21.38             | 21.55             |
| Maximum Power Voltage (Vmp) | 34.01             | 34.02             | 34.03             | 34.5              | 34.7              |
| Maximum Power Current (Imp) | 17.30             | 17.40             | 17.50             | 17.54             | 17.58             |
| Open Circuit Voltage (Voc)  | 41.1              | 41.03             | 41.05             | 41.7              | 41.9              |
| Short Circuit Current (Isc) | 18.33             | 18.43             | 18.53             | 18.58             | 18.62             |
| 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)           | 210x105      |
| Cells per Module(pcs)         | 120 (6x20)   |
| Weight(kg)                    | 31.0         |
| Panel Dimensions(mm)          | 2172x1303x35 |
| Max. Wind/Snow Load(Pa)       | 2400/5400    |
| Junction Box                  | IP68         |
| Junction Box Cable Length(mm) | 350-1600     |

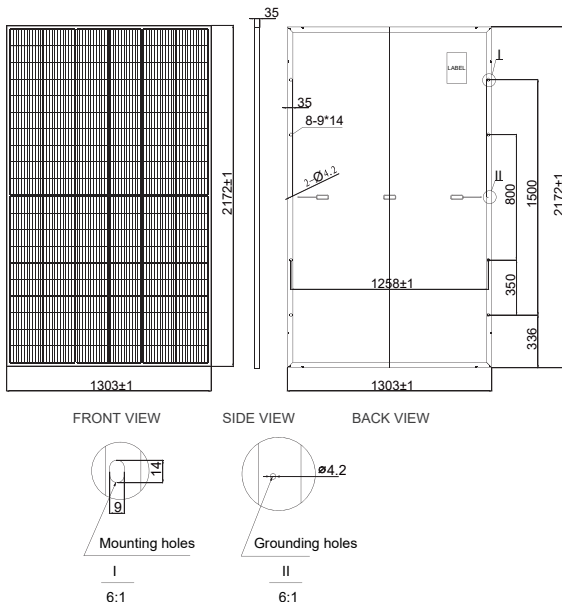
## TEMPERATURE CHARACTERISTICS

|                        |            |
|------------------------|------------|
| Temp. Coeff. of (Isc)  | 0.040%/°C  |
| Temp. Coeff. of (Voc)  | -0.260%/°C |
| Temp. Coeff. of (Pmax) | -0.340%/°C |

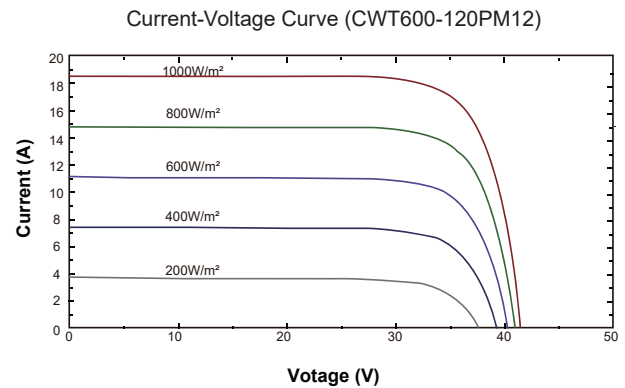
## PACKING CONFIGURATION

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

## PHYSICAL CHARACTERISTICS



## ELECTRICAL CHARACTERISTICS



\* 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.

Ver.2308.17