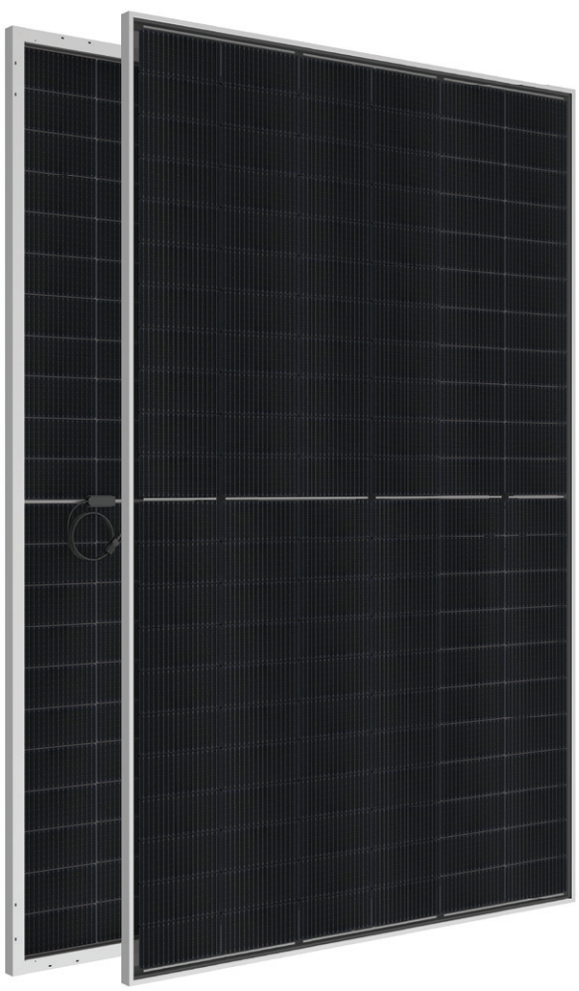
CW Enerji®

30 - YEAR - PERFORMANCE WARRANTY

CWT SOLAR PANEL

BIFACIAL TOPCON MONOCRYSTALLINE
132TNB12R

- CWT615-132TNB12R 615 Wp
- CWT610-132TNB12R 610 Wp
- CWT605-132TNB12R 605 Wp
- CWT600-132TNB12R 600 Wp
- CWT595-132TNB12R 595 Wp
- CWT590-132TNB12R 590 Wp



Half Cut DOUBLE GLASS

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

0~+5W Positive Power Tolerance

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

Easy Installation

Twice EVA Laminated Double Glass

SOMPO INSURANCE

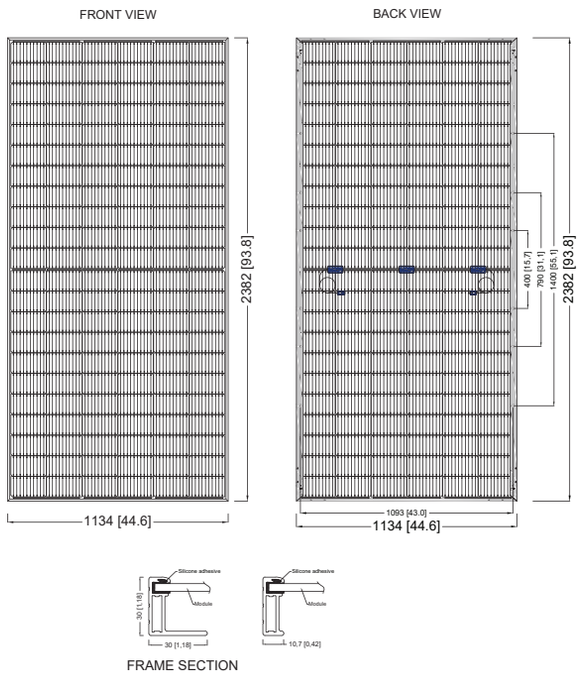
ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

www.cw-enerji.com

BIFACIAL TOPCON MONOCRYSTALLINE 132TNB12R

Half Cut

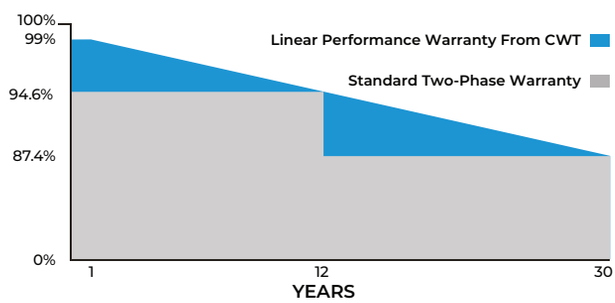
PHYSICAL CHARACTERISTICS



FRAME SECTION

MECHANICAL SPECIFICATIONS

Cell Dimensions(mm)	182x105 / 7.17x4.14
Cells per Module(pcs)	132 (6x22)
Weight(kg)	33.1 / 72.97
Panel Dimensions(mm)	2382x1134x30 / 93.78x44.65x1.20
Max. Wind/Snow Load(Pa)	2400/5400
Junction Box	IP68
Junction Box Cable Length(mm)	350-1600 / 13.78-63.00
Glass Thickness (mm)	2.0 - 2.0 / 0.08 -0.08



☑ 30 Years Performance Warranty ☑ 12 Years Product Warranty

ELECTRICAL CHARACTERISTICS

Model Type	CWT590 132TNB12R	CWT595 132TNB12R	CWT600 132TNB12R	CWT605 132TNB12R	CWT610 132TNB12R	CWT615 132TNB12R
Peak Power (Pmax)	590	595	600	605	610	615
Module Effciency	21.8	22.0	22.2	22.4	22.6	22.8
Maximum Power Voltage (Vmp)	39.09	39.27	39.44	39.60	39.77	39.96
Maximum Power Current (Imp)	15.09	15.15	15.21	15.28	15.34	15.39
Open Circuit Voltage (Voc)	47.30	47.50	47.70	47.90	48.10	48.30
Short Circuit Current (Isc)	15.85	15.90	15.95	16.00	16.05	16.10
Power Tolerance	0~+5W					
Maximum System Voltage	1500V DC					
Operating Temperature	-40 ~ +85°C					
Protection Class	UL Type 29					
Maximum Series Fuse Rating	35A					

TEMPERATURE CHARACTERISTICS

Temp. Coeff. of (Isc)	0.046%/°C
Temp. Coeff. of (Voc)	-0.260%/°C
Temp. Coeff. of (Pmax)	-0.300%/°C

PACKING CONFIGURATION

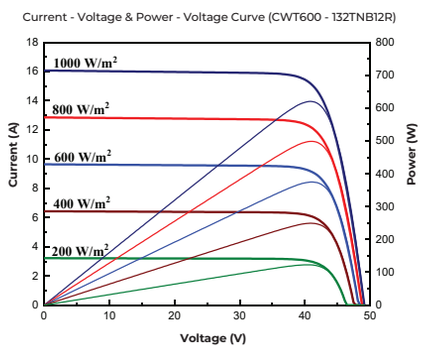
Container	**40'HC**
Pieces per Pallet	36
Pieces Per Container	720
Pallet Per Container	20

TEMPERATURE CHARACTERISTICS

(10% rear side power gain)

Rear Side Power Gain	590	595	600	605	610	615
Peak Power (Pmax)	637	643	648	653	659	664
Short Circuit Current (Isc)	17.12	17.17	17.23	17.28	17.33	17.39
Open Circuit Voltage (Voc)	47.30	47.50	47.70	47.90	48.10	48.30
Maximum Power Current (Imp)	16.30	16.36	16.43	16.50	16.56	16.62
Maximum Power Voltage (Vmp)	39.09	39.27	39.44	39.60	39.77	39.96

ELECTRICAL CHARACTERISTICS



* 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.

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