

Half Cut

BIFACIAL HIGH-EFFICIENCY SOLAR PANELS • 132TNB12R



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



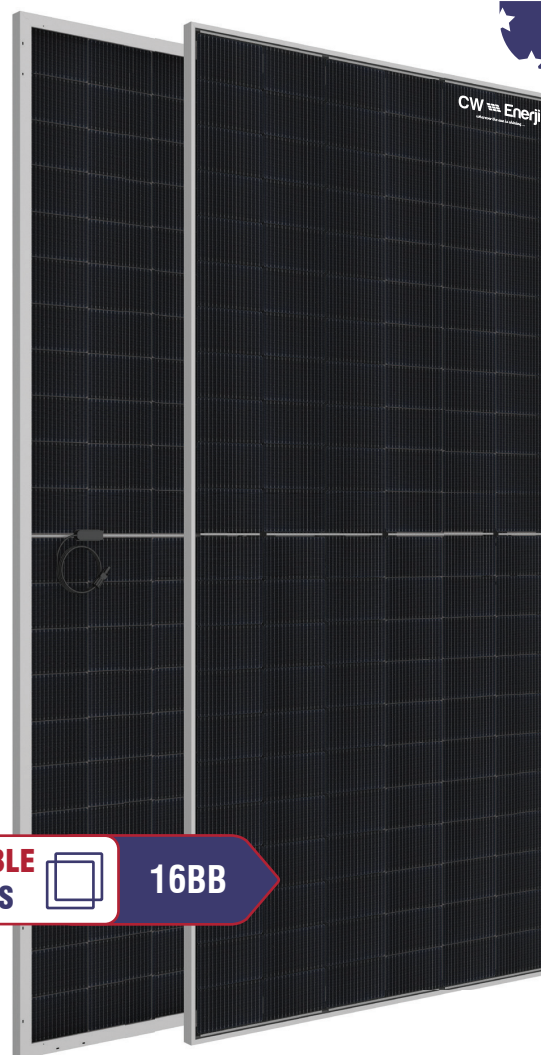
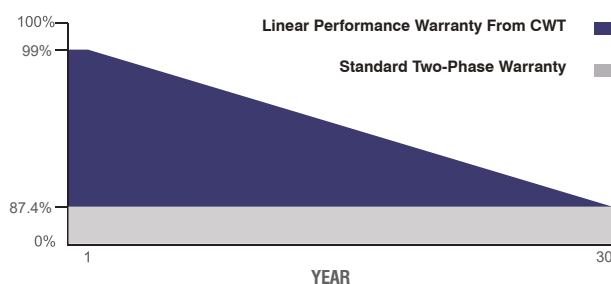
0~+5W Positive Power Tolerance



Easy Installation



Twice EVA Laminated Double Glass



**DOUBLE
GLASS**



16BB

CWT655-132TNB12R 655 Wp

CWT650-132TNB12R 650 Wp

CWT645-132TNB12R 645 Wp

CWT640-132TNB12R 640 Wp

CWT635-132TNB12R 635 Wp

CWT630-132TNB12R 630Wp

CWT625-132TNB12R 625Wp

CWT620-132TNB12R 620Wp



30 Years Performance Warranty



30 Years Product Warranty



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

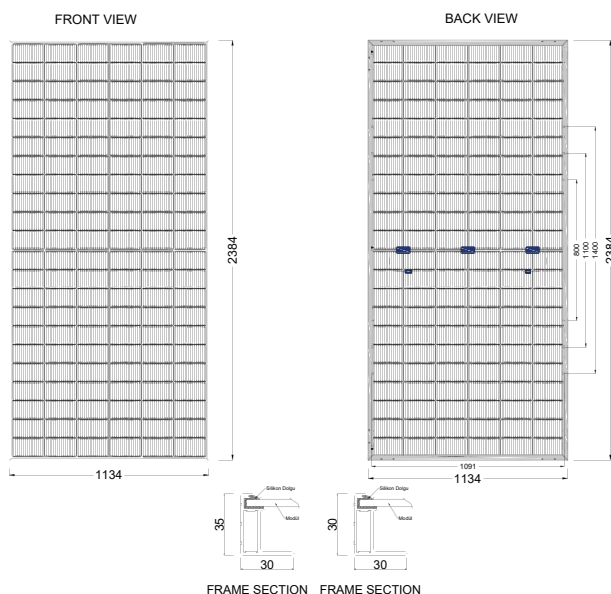
ELECTRICAL CHARACTERISTICS

Model Type	CWT620 132TNB12R	CWT625 132TNB12R	CWT630 132TNB12R	CWT635 132TNB12R	CWT640 132TNB12R	CWT645 132TNB12R	CWT650 132TNB12R	CWT655 132TNB12R
Peak Power (P_{max})	620 Wp	625 Wp	630 Wp	635 Wp	640 Wp	645 Wp	650 Wp	655 Wp
Module Efficiency (%)	22.93	23.12	23.30	23.49	23.67	23.86	24.04	24.23
Maximum Power Voltage (V_{mp})	41.02	41.22	41.42	41.62	41.82	42.02	42.22	42.42
Maximum Power Current (I_{mp})	15.12	15.17	15.22	15.26	15.31	13.35	15.40	15.45
Open Circuit Voltage (V_{oc})	48.99	49.19	49.39	49.59	49.79	49.99	50.19	50.39
Short Circuit Current (I_{sc})	16.02	16.08	16.14	16.20	16.26	16.32	16.38	16.44
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)	182x105 / 7.17x4.14
Cells per Module(pcs)	132 (6x22)
Weight(kg/lbs)	(30 mm) 29.0 / 63.93 (35 mm) 30.0 / 66.13
Panel Dimensions(mm/inch)	2384x1134x30 / 93.85 x 44.65x1.20 2384x1134x35 / 93.85 x 44.65 x 1.40
Max. Wind/Snow Load(Pa)/(lb/ft ²)	(2400 / 5400) / (50 / 212)
Junction Box	IP68
Junction Box Cable Length(mm/inch)	350-1600 / 13.78-63.00
Glass Thickness(mm/inch)	(2.0 / 2.0) / (0.08 / 0.08)
Frame Color	Silver / Black

PHYSICAL CHARACTERISTICS



REAR SIDE POWER GAIN

(630W Front Power Referenced)

Rear Side Power Gain	10%	20%	30%
Peak Power (P_{max})	693.00	732.00	819.00

TEMPERATURE CHARACTERISTICS

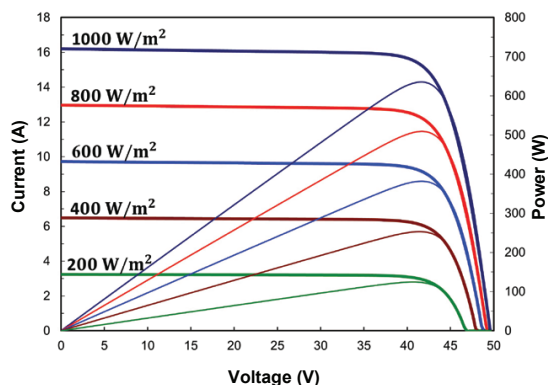
Temp. Coeff. of (I_{sc})	0.040%/°C
Temp. Coeff. of (V_{oc})	-0.260%/°C
Temp. Coeff. of (P_{max})	-0.30%/°C

PACKING CONFIGURATION

Container	40' GP	40' GP
Frame Thickness (mm)	35	30
Pieces per Pallet	31	36
Pieces Per Container	558	648
Pallet Per Container	18	18

ELECTRICAL CHARACTERISTICS

Current - Voltage & Power - Voltage Curve (CWT630 - 132TNB12R)



* 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.