







Half**Z**Cut Multi-BB **BLACK SERIES**





High Conversion Efficieny 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.



Easy Installation





30 Years Performance Warranty

12

YEARS

97.5%

90%

83.5%



30

Linear Performance Warranty From CWT

Standard Two-Phase Warranty

12 Years Product Warranty



BLACK SERIES

CWT SOLAR PANEL

132PMFB12

Half—Cut

Peak Power (Pmax) Module Efficiency Maximum Power Voltage (Vmp) Maximum Power Current (Imp) Open Circuit Voltage (Voc) Short Circuit Current (Isc) Power Tolerance Maximum System Voltage Operating Temperature Protection Class Maximum Series Fuse Rating

CWT650 132PMFB12	CWT655 132PMFB12	CWT660 132PMFB12	CWT665 132PMFB12	CWT670 132PMFB12	CWT675 132PMFB12
650 Wp	655Wp	660Wp	665Wp	670Wp	675Wp
20.92	21.09	21.25	21.41	21.57	21.73
37.50	37.70	37.90	38.10	38.30	38.50
17.34	17.38	17.42	17.46	17.50	17.54
45.20	45.40	45.60	45.80	46.00	46.20
18.35	18.39	18.44	18.48	18.51	18.56
		0~+	-5W		
		1500	V DC-		
		-40 ~	+85°C		
		Cla	ss II		
		30	A		

210x105

132 (6x22)

34.5

2384x1303x35

2400/5400

IP68

350-1600

MECHANICAL SPECIFICATION

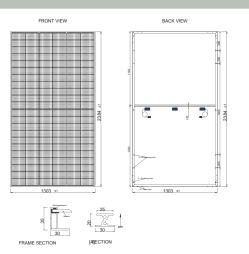
Cell Dimensions (mm) Cells per Module (pcs) Weight (kg) **Panel Dimensions (mm)** Max. Wind/Snow Load (Pa) **Junction Box** Junction Box Cable Length (mm)

PACKING CONFIGURATION Container 40' GP

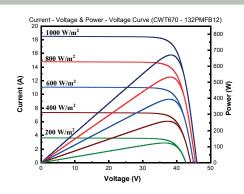
Temp. Coeff. of (ISC)	0.040%/°C	Pieces per Pallet	31
Temp. Coeff. of (Voc)	-0.260%/°C	Pieces per Container	527
Temp. Coeff. of (Pmax)	-0.340%/°C	Pallets per Container	17

PHYSICAL CHARACTERISTICS

TEMPERATURE CHARACTERISTICS



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 documents for further details.

* Please note that the color of PERC monocrystalline cells might vary slightly due to their natural structure. Consequently, there might be a color difference between the cells and between the cells and the backsheet * CW Energi reserves the right to change the specification of products without prior notice

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