

BIFACIAL PERC MONOCRYSTALLINE • 144PMB

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

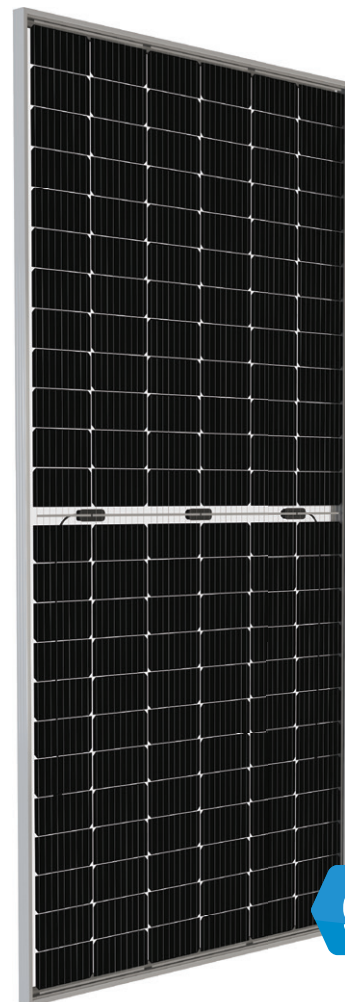
Wind load up to 2400 Pa, Snow load up to 5400 Pa



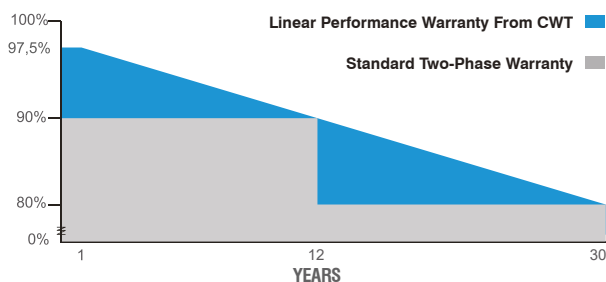
0~+5Wp Positive Power Tolerance



Easy Installation



9BB



30 Years Performance Warranty



12 Years Product Warranty

CWT465-144PMB 465 Wp
CWT460-144PMB 460 Wp
CWT455-144PMB 455 Wp
CWT450-144PMB 450 Wp
CWT445-144PMB 445 Wp
CWT440-144PMB 440 Wp
CWT435-144PMB 435 Wp
CWT430-144PMB 430 Wp
CWT425-144PMB 425 Wp
CWT420-144PMB 420 Wp

**30
YEARS**
**PERFORMANCE
WARRANTY**



SOMPO SiGORTA



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	CWT420 144PMB	CWT425 144PMB	CWT430 144PMB	CWT435 144PMB	CWT440 144PMB	CWT445 144PMB	CWT450 144PMB	CWT455 144PMB	CWT460 144PMB	CWT465 144PMB
Peak Power (P _{max})	420 Wp	425 Wp	430 Wp	435 Wp	440 Wp	445 Wp	450 Wp	455 Wp	460 Wp	465 Wp
Module Efficiency	19.30	19.52	19.75	20.00	20.20	20.40	20.70	20.90	21.13	21.36
Maximum Power Voltage (V _{mp})	40.20	40.40	40.60	40.80	41.00	41.20	41.40	41.60	41.80	42.00
Maximum Power Current (I _{mp})	10.45	10.52	10.60	10.67	10.74	10.81	10.87	10.94	11.00	11.07
Open Circuit Voltage (V _{oc})	48.00	48.20	48.40	48.60	48.80	49.00	49.20	49.40	49.60	49.80
Short Circuit Current (I _{sc})	11.17	11.25	11.32	11.40	11.47	11.54	11.61	11.67	11.74	11.80
Power Tolerance	0~+5W									
Maximum System Voltage	1500V DC									
Operating Temperature	-40 ~ +85°C									
Protection Class	Class II									
Maximum Series Fuse Rating	20A									

MECHANICAL SPECIFICATIONS

Cell Dimensions(mm)	166 x 83
Cells per Module(pcs)	144 (12X12)
Weight(kg)	24.5
Panel Dimensions(mm)	2095x1039x40
Max. Wind/Snow Load(Pa)	2400/5400
Junction Box	IP68
Junction Box Cable Length(mm)	350-1200

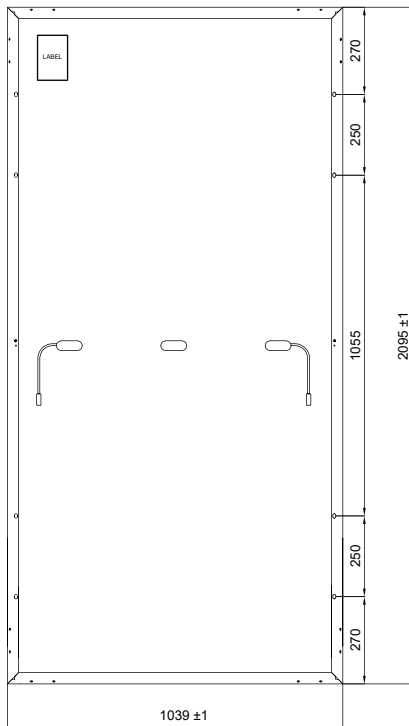
TEMPERATURE CHARACTERISTICS

Temp. Coeff. of I _{sc}	0.05%/°C
Temp. Coeff. of V _{oc}	-0.304%/°C
Temp. Coeff. of P _{max}	-0.36%/°C

PACKING CONFIGURATION

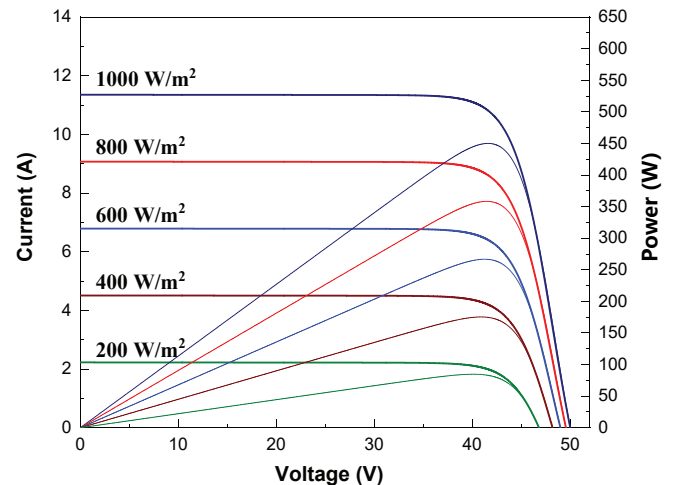
Container	20' GP	40' GP
Pieces per Pallet	27	27
Pieces Per Container	270	594
Pallet Per Container	10	22

PHYSICAL CHARACTERISTICS



ELECTRICAL CHARACTERISTICS

Current - Voltage & Power - Voltage Curve (CWT445-144PMB)



*Note: The specifications are obtained under the standard test conditions: 1000W/m² solar irradiance, 1.5 Air Mass and cell temperature of 25°C. The NOCT is obtained under the Test Conditions 800W/m² solar radiation, ambient temperature 20°C, wind speed 1m/s. 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. CW Enerji Mühendislik Ticaret ve Sanayi A.Ş. reserves the right to change these terms and conditions at any time without prior notice.

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