

PERC MONOCRYSTALLINE • 144PM-HC

# 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

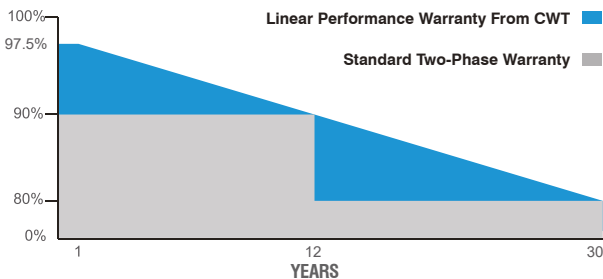


0~+5W

### 0~+5W Positive Power Tolerance



### Easy Installation



✓ 30 Years Performance Warranty ✓ 12 Years Product Warranty

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



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

## MECHANICAL SPECIFICATIONS

<b>Cell Dimensions(mm)</b>	166x83
<b>Cells per Module(pcs)</b>	144 (24x6)
<b>Weight(kg)</b>	24.5
<b>Panel Dimensions(mm)</b>	2095x1039x40
<b>Max. Wind/Snow Load(Pa)</b>	2400/5400
<b>Junction Box</b>	IP68
<b>Junction Box Cable Length(mm)</b>	350-1200

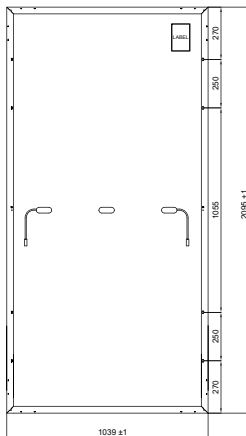
## TEMPERATURE CHARACTERISTICS

<b>Temp. Coeff. of (Isc)</b>	0.050%/°C
<b>Temp. Coeff. of (Voc)</b>	-0.304%/°C
<b>Temp. Coeff. of (Pmax)</b>	-0.360%/°C

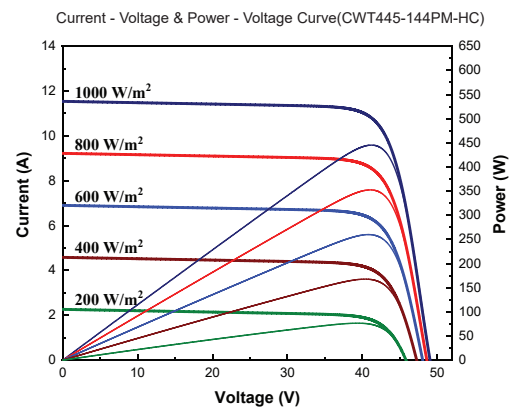
## PACKING CONFIGURATION

Container	20' GP	40' GP
<b>Pieces per Pallet</b>	27	27
<b>Pieces Per Container</b>	270	594
<b>Pallet Per Container</b>	10	22

## 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 non 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.