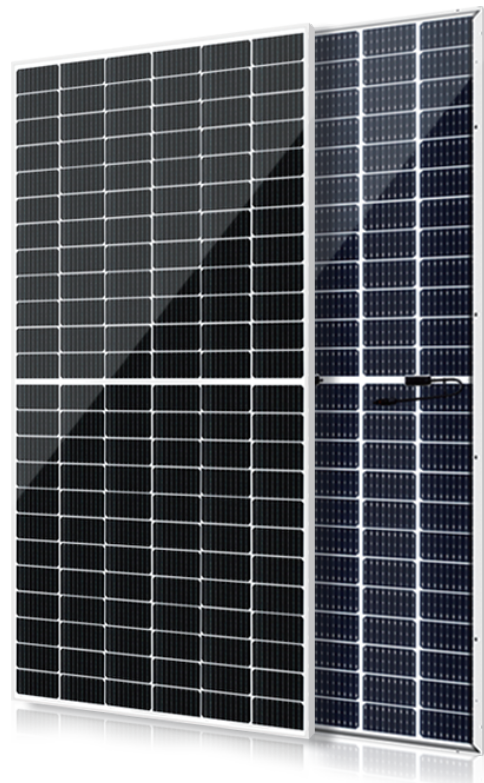


## 565W/570W/575W/580W

Cortex™ series of solar modules by Omnis Power are very powerful which provide the world-class performance. The Cells and raw materials structure design ensures the maximized of sunlight and enhances the reliability. Cortex™ includes the most leading technologies of solar cells like PERC, N-Topcon, HJT, and shingled. After years of effort, Cortex is able to increase customer's value beyond the efficiency, the performance and durability under real conditions makes our customers succeed no matter in residential or commercial applications.



## Highlight



### Higher Efficiency

The leading high efficiency of solar cells ensures the high output power which making it more sufficient in limited space.



### Warranty Extended Up To 30 Years

Cortex provide 30 years warranty of product materials and workmanship which is leading the whole industry.



### Lower Power Degradation

Ensured PID resistance through cell process and module material control to help harvest more. Cortex is guaranteed ONLY 0.4% annual power degradation in 30 years.



### Durability In Extreme Conditions

Cortex is passed the test by salt mist, ammonia and mechanical loads up to 5400pa positive.

## About Omnis Power

In the year of 2010, Omnis power was created by a group of passionate people in U.S who are dedicating into renewable energies. Since more than 10 Years, Omnis Power has grown to become one of the most innovative and dependable solar product and solution provider. Omnis Power offers sustainability and brings the future to both commercial and residential applications worldwide with top-of-the-line solar products, solutions, and services. Being an qualified PV company means operating in a way that reflects our values and mission to provide our partners with the innovation and quality they deserve. Omnis Power is committed to upholding the standards and responsibility that made us one of the best.

### Electrical Data (STC)

Part Number	OP565M72-NT3-BF	OP570M72-NT3-BF	OP575M72-NT3-BF	OP580M72-NT3-BF
Peak Power Watts- $P_{MAX}(W_p)^*$	565	570	575	580
Power Output Tolerance	0~5W			
Open Circuit Voltage- $V_{oc}(V)$	50.87	51.07	51.27	51.47
Short Circuit Current- $I_{sc}(A)$	14.19	14.25	14.31	14.37
Maximum Power Voltage- $V_{MPP}(V)$	42.14	42.29	42.44	42.59
Maximum Power Current- $I_{MPP}(A)$	13.41	13.48	13.55	13.62
Panel Efficiency(%)	21.87	22.07	22.26	22.45

STC :Irradiance 1000w/m<sup>2</sup>,Cell Temperature 25°C ,Measure Tolerance :+/- 3%

### Electrical Data (NOCT)

MaximumPower- $P_{MAX}(W_p)^*$	425	429	432	436
Open Circuit Voltage- $V_{oc}(V)$	48.32	48.51	48.70	48.89
Short Circuit Current- $I_{sc}(A)$	11.46	11.50	11.55	11.60
Maximum Power Voltage- $V_{MPP}(V)$	39.52	39.65	39.78	39.87
Maximum Power Current- $I_{MPP}(A)$	10.75	10.81	10.87	10.94

NOCT:Irradiance at 800W/m<sup>2</sup>,Ambient Temperature 20°C,Wind Speed 1m/s

### Mechanical Data

Panel Dimension(H/W/O)	2278x1134x30mm
Weight	32kg
Cell Type	N type Mono-crystalline
Cell Number	144
Front Glass	2.0mm, Anti-Reflection Coating
Back Glass	2.0mm, Heat Strengthened Glass
Frame Type	Anodized Aluminium Alloy
Junction Box Protection Class	IP 68
Cables	TUV 1×4.0mm <sup>2</sup> (+): 400mm , (-): 200mm or Customized Length

### Temperature Ratings

NOCT	45°C(±2°C)
Temperature Coefficient of $P_{MAX}$	-0.30%/°C
Temperature Coefficient of $V_{oc}$	-0.25%/°C
Temperature Coefficient of $I_{sc}$	+0.046%/°C

(Do not connect Fuse in Combiner Box with two or more strings in parallel connection)

### Maximum Ratings

Operational Temperature	-40~±85 °C
Front/Rear Side Load	5400/2400pa
Max Series Fuse Rating	30A
Max System Voltage	1500V (IEC)
Fire Rating	Class 1(UNI9177)

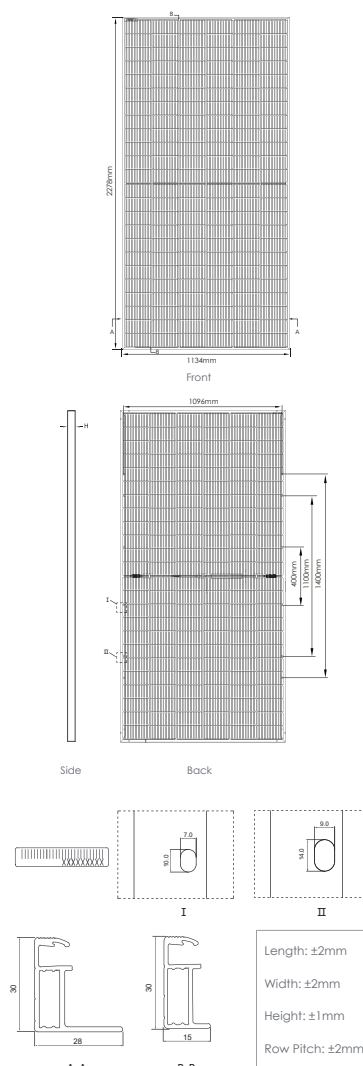
### Warranty

30 years Product Workmanship Warranty
30 years Output Power Warranty

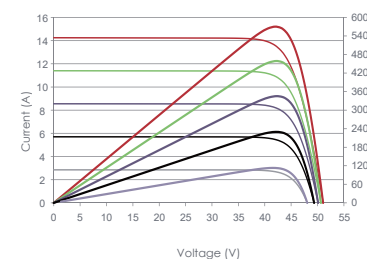
### Packaging Configuration

Modules per box:36 pieces
Modules per 40'container:720 pieces

### DIMENSIONS OF PV MODULE(mm)



### Current-Voltage & Power-Voltage Curves



### Temperature Dependence of $I_{sc}$ , $V_{oc}$ , $P_{max}$

