

460W/465W/470W/475W/480W

Cortex[™] series of solar modules by Omnis Solar 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 vale 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 powerwhich making it more sufficient in limited space.



Warranty Extended Up To 25 Years

Cortex provide 25 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 Solar Power

In the year of 2010, Omnis Solar Power was created by a group of passionate people in U.S who are dedicating into renewable energies. Since more than 10 Years, Omnis Solar Power has grown to become one of the most innovative and dependable solar product and solution provider. Omnis Solar 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 Solar Power is committed to upholding the standards and responsibility that made us one of the best.





Electrical Data (STC)

Part Number	OP460M60-NT3	OP465M60-NT3	OP470M60-NT3	OP475M60-NT3	OP480M60-NT3
Peak Power Watts-P _{MAX} (Wp)*	460	465	470	475	480
Power Output Tolerance	0~±3%				
Open Circuit Voltage-Voc(V)	42.05	42.22	42.38	42.54	42.71
Short Circuit Current-Isc(A)	13.99	14.07	14.15	14.23	14.31
Maximum Power Voltage-V _{MPP} (V)	34.72	34.89	35.05	35.21	35.38
Maximum Power Current-Impp(A)	13.25	13.33	13.41	13.49	13.57
Panel Efficiency(%)	21.32	21.55	21.78	22.01	22.24

STC :Irradiance 1000w/m²,Cell Temperature 25°C

Electrical Data (NOCT)

MaximumPower-P _{MAX} (Wp)*	346	350	353	357	361
Open Circuit Voltage-Voc(V)	39.94	40.10	40.25	40.41	40.57
Short Circuit Current-Isc(A)	11.29	11.36	11.42	11.49	11.55
Maximum Power Voltage-V _{MPP} (V)	32.60	32.77	32.94	33.10	33.27
Maximum Power Current-I _{MPP} (A)	10.61	10.67	10.73	10.79	10.85

NOCT:Irradiance at 800W/m²,Ambient Temperature 20°C,Wind Speed 1m/s

Mechanical Data

Panel Dimension(H/W/0)	1903x1134x30mm	
Weight	24.2kg	
Cell Type	N type Mono-crystalline	
Cell Number	120	
Glass Type	3.2mm,Anti-Reflection Coating,	
	High Transmission, Low Iron, Tempered Glass	
Frame Type	Anodized Aluminium Alloy	
Junction Box Protection Class	IP 68	
Cables	TUV 1×4.0mm²	
	(+): 400mm , (-): 200mm or Customized Length	

Temperature Ratings

NOCT	42°C(±2°C)
Temperature Coefficient of PMAX	-0.290%/°C
Temperature Coefficient of Voc	-0.250%/°C
Temperature Coefficient of Isc	+0.045%/°C

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

Warranty

25 years Product Workmanship Warranty **30 years Output Power Warranty**

Omnis Power USA Inc.

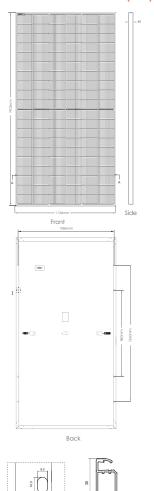
Maximum Ratings

Operational Temperature	-40~±85 °C	
Front/Rear Side Load	5400/2400pa	
Max Series Fuse Rating	25A	
Max System Voltage	1500V (IEC)	
Fire Rating	Class 1(UNI9177)	

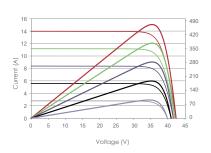
Packaging Configuration

Modules per box:36 pieces Modules per 40'container:864 pieces

DIMENSIONS OF PV MODULE(mm)







Temperature Dependence of Isc,Voc,Pmax

