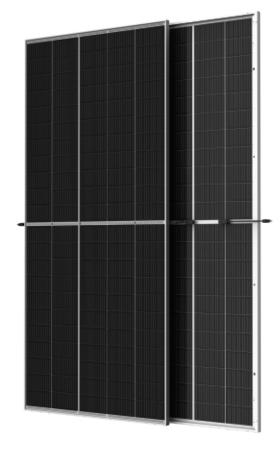


540W/545W/550W/555W

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 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 0.5% 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	OP540M55-P4-BF	OP545M55-P4-BF	OP550M55-P4-BF	OP555M55-P4-BF
Peak Power Watts-P _{MAX} (Wp)*	540	545	550	555
Power Output Tolerance	0~±3%			
Open Circuit Voltage-Voc(V)	37.70	37.90	38.10	38.30
Short Circuit Current-Isc(A)	18.30	18.35	18.39	18.43
Maximum Power Voltage-V _{MPP} (V)	31.40	31.60	31.80	32.00
Maximum Power Current-Impp(A)	17.21	17.24	17.29	17.35
Panel Efficiency(%)	20.70	20.90	21.00	21.20

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

Electrical Data (NOCT)

MaximumPower-P _{MAX} (Wp)*	409	413	416	420
Open Circuit Voltage-Voc(V)	35.50	35.70	35.90	36.10
Short Circuit Current-Isc(A)	14.75	14.79	14.82	14.85
Maximum Power Voltage-V _{MPP} (V)	29.20	29.40	29.50	29.70
Maximum Power Current-I _{MPP} (A)	14.02	14.08	14.10	14.14

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

Mechanical Data

Panel Dimension(H/W/0)	2384×1096×30 mm	
Weight	32.3 kg	
Cell Type	Monocrystalline	
No. of cells	110 cells	
Front Glass	2.0mm, High Transmission, AR Coated Heat Strengthened Glass	
Encapsulant material	EVA/POE	
Back Glass	2.0mm, Heat Strengthened Glass (White Grid Glass)	
Frame	30mm Anodized Aluminium Alloy	
J-Box	IP 68 rated	
Cables	Photovoltaic Technology Cable 4.0mm ² ,	
	Portrait: 280/280 mm, Length can be customized	
Connector	MC4/ MC4 Compatible	

Temperature Ratings

NOCT	43°C(±2°C)
Temperature Coefficient of P _{MAX}	-0.34%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	+0.04%/°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	35A
Max System Voltage	1500V (IEC)
Fire Rating	Class 1(UNI9177)

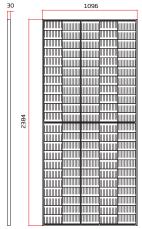
Warranty

30 years Product Workmanship Warranty 30 years Output Power Warranty

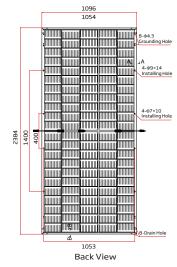
Packaging Configuration

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

DIMENSIONS OF PV MODULE(mm)



Front View



Laminate

