CORTEX™

655W/660W/665W/670W

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.

TÜV SÜD · CE · ETL LISTED Intertek · LEGALIZADO INMETRO

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.

OMNIS SOLAR POWER

Electrical Data (STC)

Part Number	OP655M69-SHI-SBF	OP660M69-SHI-SBF	OP665M69-SHI-SBF	OP670M69-SHI-SBF
Peak Power Watts-P_{MAX}(Wp)*	655	660	665	670
Power Output Tolerance	0~±3%			
Open Circuit Voltage-V_{OC}(V)	46.80	46.90	47.00	47.10
Short Circuit Current-I_{SC}(A)	17.97	18.06	18.16	18.26
Maximum Power Voltage-V_{MPP}(V)	38.80	38.90	39.00	39.10
Maximum Power Current-I_{MPP}(A)	16.89	16.98	17.07	17.16
Panel Efficiency(%)	21.10	21.20	21.40	21.60

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

Electrical Data (NMOT)

MaximumPower-P_{MAX}(Wp)*	493	497	501	504
Open Circuit Voltage-V_{OC}(V)	44.50	44.70	44.80	44.90
Short Circuit Current-I_{SC}(A)	14.47	14.55	14.63	14.71
Maximum Power Voltage-V_{MPP}(V)	37.00	37.10	37.20	37.30
Maximum Power Current-I_{MPP}(A)	13.32	13.39	13.46	13.54

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

Mechanical Data

Panel Dimension(H/W/0)	2384×1303×35mm
Weight	38.5kg
Cell Type	Mono-crystalline solar cell
Cell Orientation	414(69*6)
Front glass	Tempered glass, 2.0mm
Frame	Anodized aluminum profile
Junction Box	IP68, three diodes
Cable	4mm²,+500mm/-1000mm(Vertical), +220mm/-180mm(Horizontal)

Temperature Ratings

NMOT	42.30°C(±2°C)
Temperature Coefficient of P_{MAX}	-0.34%/°C
Temperature Coefficient of V_{OC}	-0.27%/°C
Temperature Coefficient of I_{SC}	+0.04%/°C

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

Maximum Ratings

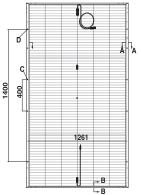|	
Operational Temperature	-40~±85 °C
Front/Rear Side Load	5400/2400pa
Max Series Fuse Rating	30A
Max System Voltage	1500V (IEC)
Fire Rating	Class 1(UNI9177)

Warranty

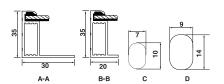| |
|---|
| 30 years Product Workmanship Warranty |
| 30 years Output Power Warranty |

Packaging Configuration

Modules per box:31 pieces
Modules per 40'container:558 pieces

DIMENSIONS OF PV MODULE(mm)

I-V CURVES OF PV MODULE

OMNIS
SOLAR POWER

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