



VENUS SERIES

POLYCRYSTALLINE SOLAR PV MODULES | 54 CELLS KE 225, KE 230, KE 235





HIGH CONVERSION EFFICIENCY

based on leading innovative Photo Voltaic European Technology



Up to + 3 Wp **POSITIVE POWER OUTPUT TOLERANCE GUARANTEED** ensuring Return on Investment



Extremely **RELIABLE PRODUCT** withstands high wind pressure and snow load and temprature variations



RIGOROUS QUALITY CONTROL meeting The Highest International Standards

ABOUT KOSOL

Kalthia Group began its journey in 1960 from infrastructure development business in the State of Gujarat, India. Kalthia Group diversified its wing towards the manufacturing, R&D, and development of innovative products with the excellence under the brands names "KOSOL" and "SunRay". KOSOL covers Solar PV Modules, Solar Rooftop, EPC Solar Power plant, Solar Water Pumps etc and SunRay includesf Domestic and Industrial Solar Water Heating applications and Solar Lights. Already exporting to USA and European countries because of established proven product reliability and sustainable performance. Having plant capacity 150 MW

QUALITY AND SAFETY

- 25 years of linear power output warranty**
- Rigorous quality control meeting the highest international standards
- Certified for PID resistance*
- Certified for salt mist corrosion resistance severity VI*

CERTIFIED



















TECHNICAL DATA

TYPE	KE 225	KE 230	KE 235
Pmp/W	225	230	235
Imp/A	8.17	8.28	8.34
Vmp/V	27.80	28.01	28.24
Isc/A	8.64	8.73	8.78
Voc/V	33.32	33.53	33.72

^{*} STC: 1000 w/m2, 25*C, AM 1.5

ELECTRICAL PARAMETERS AT NOCT

Pmp/W	166.81	170.67	172.99
Imp/A	6.54	6.62	6.67
Vmp/V	26.02	26.27	26.44
Isc/A	6.99 7.07 7.11		7.11
Voc/V	31.19	31.38	31.56

TEMPERATURE COEFFICIENTS

Isc of Open Circuit Voltage	(β) -0.310%/°C
Tc of Short Circuit Current	(α) 0.052%/°C
Tc of Power	(γ) -0.41%/°C
Maximum System Voltage	600V - 1000 V
NOCT	45°C ± 2°C

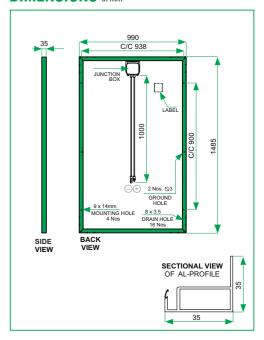
MECHANICAL DATA

1485 mm \times 990 mm \times 35 mm
15.5 kg
IP65 & IP67
1000 mm length cables with MC4 type connectors
High transmission low iron tempered glass
54 polycrystalline solar cells, 4 Bus Bars
EVA (Ethylene Vinyl Acetate)
Composite film
Anodized Aluminium frame
5400 Pa
15 A

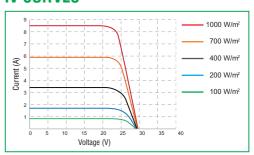
WARRANTY AND CERTIFICATIONS

Product Warranty**	5 years warranty for manufacturing defects
Performance Warranty**	Linear power warranty for 25 years with 2.5% for first year degradation and 0.82% from year 2 to 25
Approvals and Certificates	IEC 61215 Ed2, IEC 61730 - I & II, IEC 61701, IEC 62804, UL1703, CE, CEC, ISO 9001: 2008, ISO 14001: 2004, OHSAS 18001

DIMENSIONS in mm



IV CURVES



PERFORMANCE WARRANTY



^{**} Refer to Kosol Energie warranty document for terms and conditions.



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^{*} All (*) certifications under continuous upgradation in progress.