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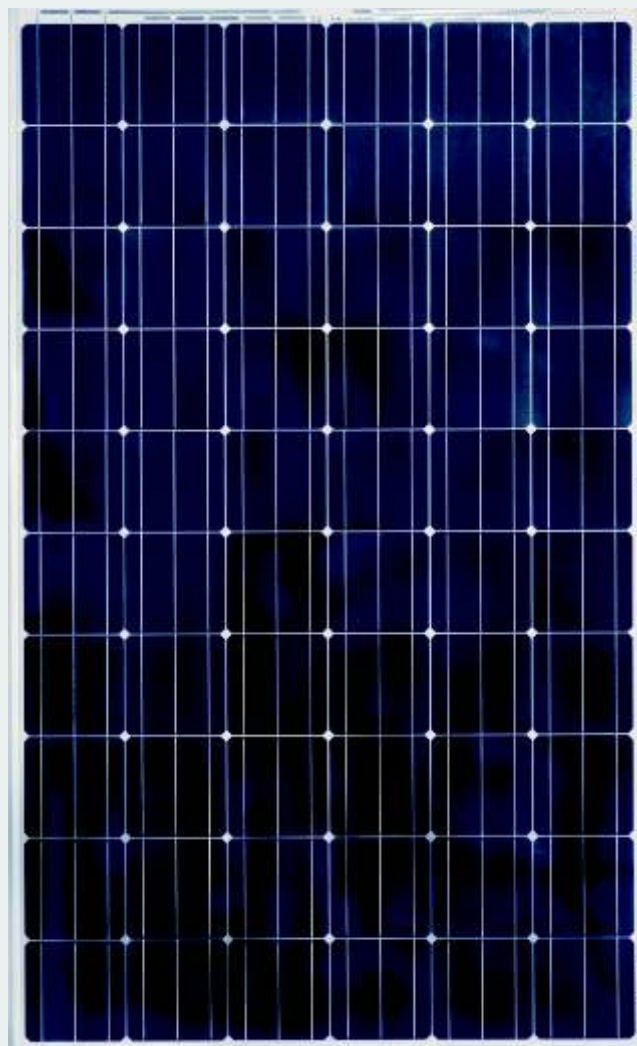
From a greek company
Simple, fast with safety and certainty

Qualitative, Efficient and Reliable Photovoltaic Modules:

- Positive Power Output Tolerance $-0/+5$ Wp, for maximum reliability and guaranteed output
- Monocrystalline cells with two (2) or three (3) bus-bar layout design
- High resistance in wind loads(2400 Pascal) and snow loads (5400 Pascal)
- Special glass for higher resistibility, with low iron content and high factor of solar radiation transmittance
- High output even in conditions of low sunlight and cloudness
- Power range 225-265 Wp in 5 Wp steps
- Anodized aluminium frame for increased service life (15 μ m)
- 26 years power output guarantee
- Certification and standards IEC 61730 and IEC 61215 by TUV Rheinland and KIWA
- Certification salt mist and standard IEC 61701 by KIWA
- Certification "Made in Europe" by KIWA
- Strict enforcement of the standards for Quality Management ISO 9001:2008, Environmental Management ISO 14001:2004 and Occupational Health and Safety Management OHSAS 18001:2007

Production process that ensures qualitative products:

- In one of the most modern, bioclimatic factories worldwide
- Utilizing the most state-of-the-art, automated and reliable equipment
- With raw materials from reliable suppliers, through rigorous selection processes
- With the support of an advanced and fully integrated quality control and failure prevention system



Among the highest guarantees in the PV market:

Output guarantee:
12 years for 90% of the nominal power
26 years for 80% of the nominal power

Product guarantee:
12 years

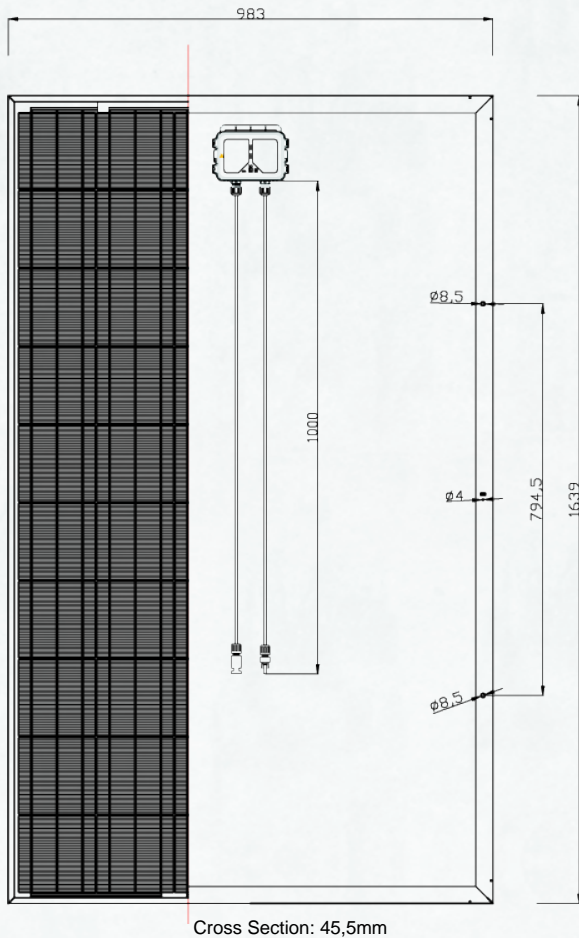


Certifications



ESP series60 Mono

Technical Specifications



Electrical Characteristics

	225	230	235	240	245	250	255	260	265
Nominal Power (Wp) (Watt)	225	230	235	240	245	250	255	260	265
Open Circuit Voltage (Voc) (v)	36.64	36.82	36.94	37.06	37.17	37.23	37.35	37.49	37.63
Short Circuit Current (Isc) (A)	8.50	8.55	8.70	8.82	8.90	8.95	9.04	9.16	9.27
Optimum Operating Voltage (Vmp) (V)	29.06	29.18	29.30	29.35	29.44	29.53	29.61	29.71	29.81
Optimum Operating Current (Imp) (A)	7.75	7.89	8.02	8.19	8.32	8.48	8.60	8.75	8.90
Maximum Power at STC (Pmax) (Watt)	225	230	235	240	245	250	255	260	265
Efficiency	13.97	14.28	14.59	14.90	15.21	15.52	15.83	16.14	16.45

STC: Irradiance 1000 W/m², module temperature 25 °C, AM=1.5, tolerance measurements Pmax ±3% all other electrical parameters ± 8%

	162	165	169	173	176	180	183	187	191
Maximum Power (Wp) (Watt)	162	165	169	173	176	180	183	187	191
Open Circuit Voltage (Voc) (v)	33.94	34.10	34.21	34.32	34.43	34.48	34.59	34.72	34.85
Short Circuit Current (Isc) (A)	6.84	6.88	7.00	7.10	7.16	7.20	7.28	7.37	7.46
Optimum Operating Voltage (Vmp) (V)	26.44	26.55	26.67	26.71	26.79	26.87	26.94	27.03	27.12
Optimum Operating Current (Imp) (A)	6.13	6.23	6.33	6.47	6.58	6.70	6.79	6.91	7.03

NOCT: Irradiance 800 W/m², ambient temperature 20 °C, wind speed 1m/s

Temperature Characteristics

Temp.Coefficient Voc -0.34 (%/ C)

Temp.Coefficient Isc 0.06 (%/ C)

Temp.Coefficient Pmp -0.46 (%/ C)

NOCT 45 C

Authorized Partner's Stamp

Mechanical Characteristics

Solar Cell	Monocrystalline, 2 or 3 bus bars 156x156 mm(6 inches)
No.of cells	60 (6x10)
Dimensions	1639 x 983 x 45.5 mm
Weight	18 Kg
Front Glass	Tempered glass(3,2mm) with low iron content and high transmittance
Frame	Anodized aluminium alloy
Junction Box	With 3 bypass diodes, IP 65 rated
Output Cables	2x4 mm ² , symmetrical lengths 1000mm, MC4 connectors

Certified operation limits

Temperature	-40 C to +85 C
Max.Load	2400 Pascal Wind Load 5400 Pascal Snow Load
Hailstone impact	Diameter 25mm, velocity 83km/h

Maximum System Voltage1000V

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