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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
- Polycrystalline 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 215-255 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

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

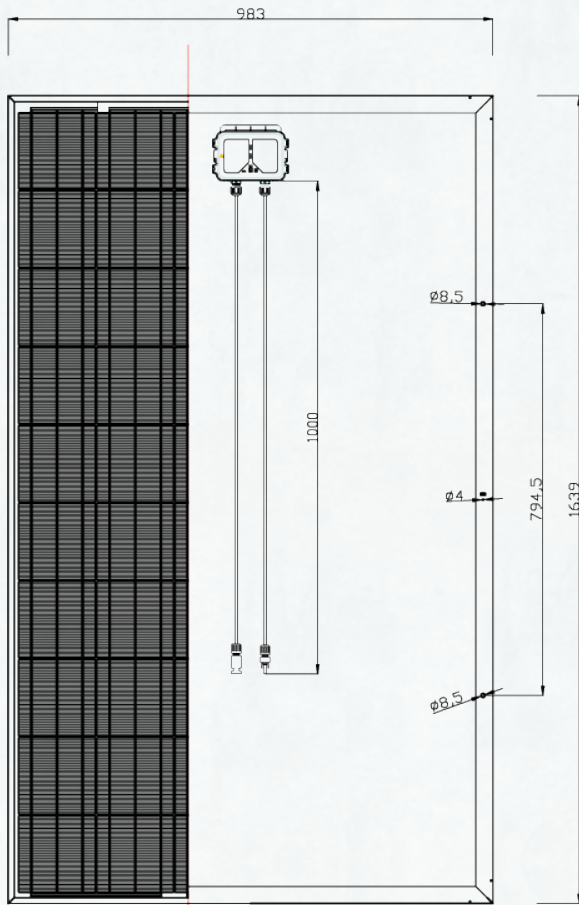


ESP series60 Poly

Technical Specifications

ExelGroup

GREEN TECHNOLOGIES



Cross Section: 45,5mm

Electrical Characteristics

	215	220	225	230	235	240	245	250	255
Nominal Power (Wp) (Watt)	215	220	225	230	235	240	245	250	255
Open Circuit Voltage (Voc) (v)	36.22	36.41	36.62	36.95	37.06	37.30	37.51	37.73	37.94
Short Circuit Current (Isc) (A)	8.14	8.26	8.36	8.46	8.56	8.66	8.78	8.89	9.00
Optimum Operating Voltage (Vmp) (V)	28.97	29.13	29.17	29.56	29.65	29.84	29.99	30.15	30.32
Optimum Operating Current (Imp) (A)	7.42	7.55	7.72	7.78	7.93	8.04	8.18	8.31	8.44
Maximum Power at STC (Pmax) (Watt)	215	220	225	230	235	240	245	250	255
Efficiency %	13.34	13.65	13.97	14.28	14.59	14.90	15.21	15.52	15.83

STC: Irradiance 1000 W/m², module temperature 25 °C, AM=1,5, tolerance measurements Pmax ±3% all other electrical parameters ± 8%

Maximum Power (Wp) (Watt)	156	159	163	166	170	174	177	181	185
Open Circuit Voltage (Voc) (v)	33.30	33.48	33.68	33.98	34.08	34.30	34.52	34.73	34.95
Short Circuit Current (Isc) (A)	6.53	6.62	6.71	6.79	6.87	6.95	7.03	7.11	7.19
Optimum Operating Voltage (Vmp) (V)	26.35	26.49	26.53	26.89	26.97	27.14	27.31	27.48	27.66
Optimum Operating Current (Imp) (A)	5.91	6.01	6.14	6.19	6.31	6.40	6.49	6.59	6.68

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 -0.43 (%/°C)

NOCT 45 °C

Mechanical Characteristics

Solar Cell	Polycrystalline, 2 or 3 bus bar 156x156mm (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 Voltage 1000V

ExelGroup reserves the right to change specifications and/or product features without prior notice. This datasheet is not legally binding. Caution: Follow installation instructions.

Authorized Partner's Stamp

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