



ENSP SERIE

Polycrystalline serie



TOTAL GUARANTEED

The line of photovoltaic polycrystalline silicium ENSP has been specially designed to offer top-level operating efficiencies and durability. The flexibility of use of these modules allows their application on different size systems, the ENSP serie is particularly suitable for structure and strength for medium to large installations both on fixed structure or on new generation tracker. High-tech construction process combined with quality components used provides customers with a full warranty on the product and yield even in extreme conditions. The new system for encapsulation of cells in a layer of EVA backsheet combined with high insulation backsheet allow modules to don't suffer, in terms of produced energy, of big temperature changes that often occur at sites of large solar installations. E-Novasolar for their reliability has reached over its own modules offers customers the insurance that guarantees both product and efficiency.

IMPORTANCE OF DETAILS

- Yield's efficiency between the highest on his category (up to 16.1%)
- External frame of anodized aluminum, strong and flexible, fixed to the main body trough system can ensure complete waterproofing. This allows the module to be particularly suitable for installation on roofs or parkings.
- Waterproof junction box with connectors MC4 already pre-wired to ensure a quick and easy connection.
- Production line with high-tech monitoring systems to check and control optical, mechanical and electrical features of the modules. Flash test machines Berger Machine Germany.

TUV RHEINLAND CERTIFICATIONS (61730, 61215, CE)

10 YEARS PRODUCT GUARANTEE

90% IN 10 YEARS 80% IN 25 YEARS EFFICIENCY GUARANTEE

INSURANCE POLICY



TÜVRheinland®
Precisely Right.



EN 61215-61730 classe II



SERIE ENSP

MECHANICAL SPECIFICATIONS

Size	mm	1640 x 992 x 40
Cell's size	mm	156 x 156
Film		EVA (Etil-Vinil acetate)
Front		Hight performance glass 4 mm
Back		Tedlar layer, fluorine plastic, Dracon
Frame		Anodized aluminium

TECHNICAL SPECIFICATIONS (1000W/m² AM 1.5 25°C)

Cell material		Polycrystalline silicium			
Cells number	N°	60			
String in parallel connection	N°	1			
Peak power	Wp	W	240	245	250
Tolerance	%		0+5%	0+5%	0+5%
Max efficiency	%		15.5	15.8	16.1
Maximum power current	I _{MAX} - I _{MPP}	A	7.87	7.96	8.01
Maximum power voltage	V _{MAX} - V _{MPP}	V	30.5	30.8	31.2
Short circuit current	I _{SC}	A	8.49	8.57	8.65
Open circuit	V _{OC}	V	37.5	37.7	37.8
Cell efficiency	%		≥ 16.9	≥ 17.3	≥ 17.6
Module efficiency	%		≥ 14.7	≥ 15.0	≥ 15.4
Temperature coefficient I _{SC}	%/°C			0.046	
Temperature coefficient V _{OC}	%/°C			-0.32	
Temperature coefficient P _{MPP}	%/°C			-0.42	
Range operating temperature	°C			-40 ÷ 85	
NOCT	°C			45 ±2	
Maximum system voltage	V			1000	
Durability	years			25	
Weight	Kg			19.2	

CONNECTION

Cables lenght	mm	900
Injunction box		Multi connection - IP67
Diode by-pass		diodi by-pass

GUARANTEES

Product	years	10
Efficiency 90%	years	10
Efficiency 80%	years	25

ELECTRIC SPECIFICATIONS

