

ESP 6P 240-255 Wp

Polycrystalline Photovoltaic Module

Premium Quality Solar Module
Data sheet



Nano technology (optional)

Designed and
produced in



TEST PARAMETERS:

Simulation of **temperature** cycles: 200 cycles ranging from -40°C to +85°C

Vapour heat test in climatic chamber: 1 000 hours at 85°C and 85% relative humidity.

Front and back panel **load test**: simulated wind load of 5400 Pa, equivalent to 5400 N/m² or 550 kg/m².

Simulated **impact of hailstones**: 25 mm diameter at 23 m/s from a distance of one meter

TECHNICAL SPECIFICATIONS:

Frame: Silver, anodized aluminium alloy

Cells: 60 polycrystalline cells, 156x156mm, 3BB

Connectors: Double isolated, UV-resistant 4mm 2 cable with weatherproof solar plugs MC4

Diodes: 3x2 bypass diodes protecting the module when in shade

Assembly: Front: highly translucent, toughened glass 3,2 mm

Back: white TPT film. Embedding material: EVA

Protection degree: IP65

ELECTRICAL CHARACTERISTICS

	ESP 240 6P		ESP 245 6P	
STC Peak Power [Wp]	240		245	
NOCT Peak Power [Wp]	174		178	
Efficiency [%]	14,7		15,0	
Test conditions	STC	NOCT	STC	NOCT
Voltage at Pmax Vmpp [V]	30,27	27,39	30,65	27,77
Current at Pmax Imp [A]	7,93	6,37	7,99	6,43
Open-circuit voltage Voc [V]	37,14	33,98	37,53	34,45
Short-circuit current Isc [A]	8,48	6,88	8,55	6,94

	ESP 250 6P		ESP 255 6P	
STC Peak Power [Wp]	250		255	
NOCT Peak Power [Wp]	182		186	
Efficiency [%]	15,3		15,6	
Test conditions	STC	NOCT	STC	NOCT
Voltage at Pmax Vmpp [V]	30,93	28,04	30,78	27,94
Current at Pmax Imp [A]	8,08	6,49	8,29	6,65
Open-circuit voltage Voc [V]	37,68	34,59	37,54	34,57
Short-circuit current Isc [A]	8,63	7,00	8,85	7,18

NOCT is measured at 800W/m², 20°C ambient and 1m/s wind speed. Specifications are subject to change. Parameters are rated at Standard Test Conditions (Irradiance of 1000W/m², AM 1.5, cell temp. 25°C).

ELECTRICAL PERFORMANCE PARAMETERS

Max. system voltage U [V]	1000
Temperature coefficient of Isc %/K	+0,07 +/- 0,02
Temperature coefficient of Voc %/K	-0,34 +/- 0,01
Temperature coefficient of Pmax %/K	-0,46 +/- 0,02
NOCT	46 +/- 2° C
Efficiency reduction at 200 W/m ² , 25° C	<5 %

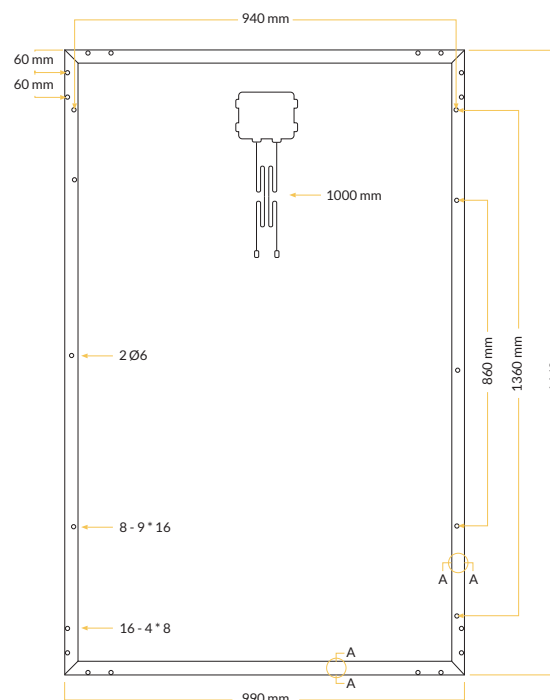
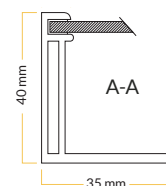
DIMENSIONS AND WEIGHT:

Length: 1640 mm

Width: 990 mm

Height: 40 mm

Weight: 19,0 kg



PERFORMANCE DATA:

Positive power output tolerance: +3/-0 %

12 year period predicted output : Min. 90%

25 year period predicted output : Min. 80%

Production Warranty: 10 years

PACKAGING SPECIFICATIONS

Modules per pallet	24
Pallets in a truck	28
Packaging dimensions †	
(2 pallet tower L/W/H)	1760/1100/ 2440 mm
Pallet + modules weight	495 kg

QUALIFICATIONS AND CERTIFICATIONS:



IEC 61215

IEC 61730

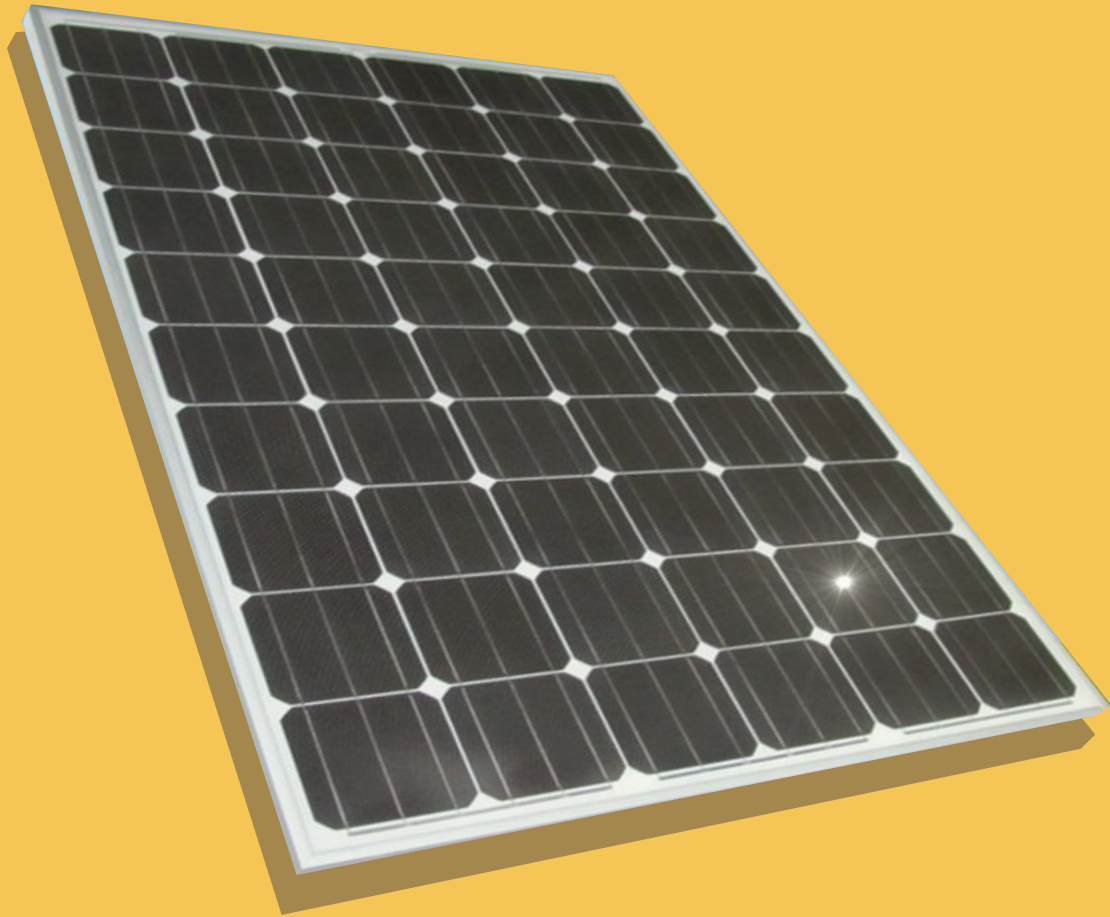


www.europe-solarproduction.pl

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STC Peak Power [Wp]	250		255	
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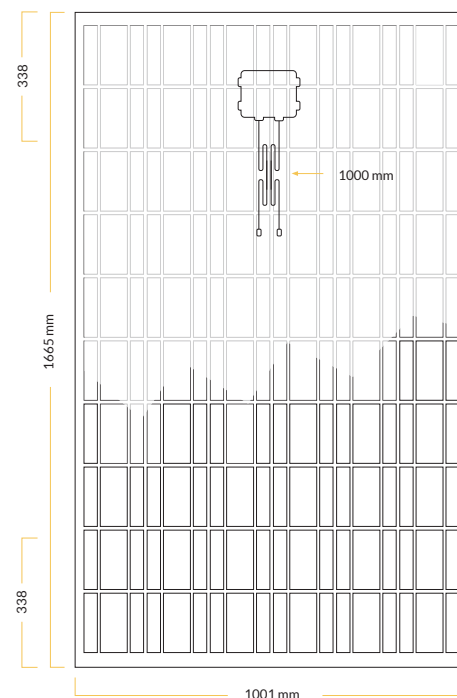
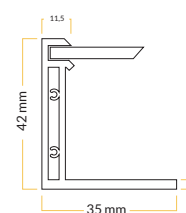
DIMENSIONS AND WEIGHT:

Length: 1655 mm

Width: 1001mm

Height: 42mm

Weight: 22,0 kg



PERFORMANCE DATA:

Positive power output tolerance: +3/-0 %

12 year period predicted output : Min. 90%

25 year period predicted output : Min. 80%

Production Warranty: 10 years

PACKAGING SPECIFICATIONS

Modules per pallet	22
Pallets in a truck	28
Packaging dimensions †	
(2 pallet tower L/W/H)	1760/1100/ 2440 mm
Pallet + modules weight	523 kg

QUALIFICATIONS AND CERTIFICATIONS:



IEC 61215

IEC 61730



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