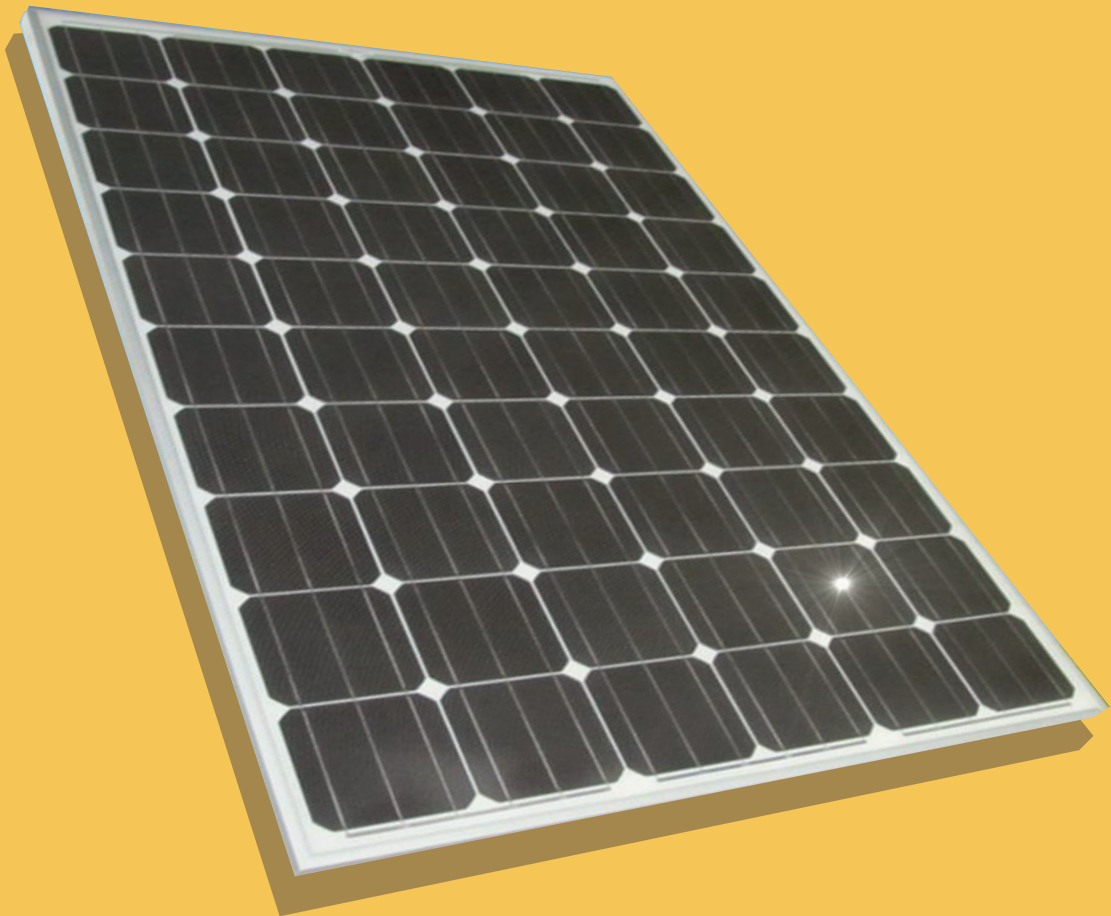


ESP 6M 250-275 Wp

# Monocrystalline Photovoltaic Module

Premium Quality Solar Module  
Data sheet



Nano technology (optional)

Designed and  
produced in EU



#### 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/m<sup>2</sup> or 550 kg/m<sup>2</sup>

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 monocrystalline cells, 156x156mm, 3BB

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

**Diodes:** 3x2 bypass diodes protect the module when in shade

**Assembly:** Front: highly translucent, toughened glass 3,2 mm Back: white TPT film. Embedding material: EVA

**Protection degree:** IP65

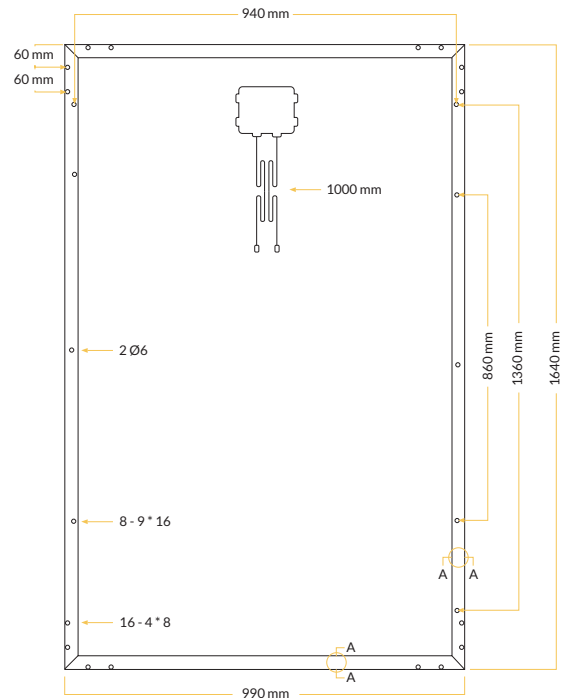
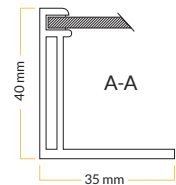
#### DIMENSIONS AND WEIGHT:

**Length:** 1640 mm

**Width:** 990 mm

**Height:** 40 mm

**Weight:** 19,0 kg



#### ELECTRICAL CHARACTERISTICS

	ESP 250 6M		ESP 255 6M		ESP 260 6M	
STC Peak Power [Wp]	250		255		260	
NOCT Peak Power [Wp]	182		186		196	
Efficiency [%]	15,3		15,6		15,9	
Test conditions	<b>STC</b>	<b>NOCT</b>	<b>STC</b>	<b>NOCT</b>	<b>STC</b>	<b>NOCT</b>
Voltage at Pmax Vmpp [V]	30,62	27,73	30,97	28,14	31,34	28,57
Current at Pmax Imp [A]	8,16	6,56	8,23	6,62	8,28	6,67
Open-circuit voltage Voc	37,44	34,36	37,89	34,77	38,25	35,18
[V] Short-circuit current Isc [A]	8,73	7,08	8,79	7,13	8,83	7,16
	ESP 265 6M		ESP 270 6M		ESP 275 6M	
STC Peak Power [Wp]	265		270		275	
NOCT Peak Power [Wp]	194		198		202	
Efficiency [%]	16,2		16,5		16,8	
Test conditions	<b>STC</b>	<b>NOCT</b>	<b>STC</b>	<b>NOCT</b>	<b>STC</b>	<b>NOCT</b>
Voltage at Pmax Vmpp [V]	<b>31,84</b>	<b>28,92</b>	32,25	29,31	32,57	29,63
Current at Pmax Imp [A]	<b>8,3</b>	<b>6,71</b>	8,39	6,73	8,47	6,79
Open-circuit voltage Voc	<b>38,61</b>	<b>35,59</b>	38,76	35,79	39,03	36,09
[V] Short-circuit current Isc [A]	<b>8,87</b>	<b>7,20</b>	8,93	7,24	8,99	7,30

NOCT is measured at 800W/m<sup>2</sup>, 20°C ambient and 1m/s wind Speed. Specifications are subject to change. Parameters are rated at standard test conditions (irradiance of 1000W/m<sup>2</sup>, 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 <sup>2</sup> , 25° C	<5 %

#### 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.com