Europe
Solar
Production

ESP 6P 250-265 Wp

# Polycrystalline 40 Photovoltaic Module

Premium Quality Solar Module
Data sheet

Designed and produced in EU

Nano technology (optional)

## 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 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

## ELECTRICAL CHARACTERISTICS

| | 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 | 31,26 | 28,36 |
| Current at Pmax Imp [A] | 8,08 | 6,49 | 8,16 | 6,55 |
| Open-circuit voltage Voc [V] | 37,68 | 34,59 | 37,95 | 34,89 |
| Short-circuit current Isc [A] | 8,63 | 7,00 | 8,78 | 7,06 |

| | ESP 260 6P | | ESP 265 6P | |
|---|---|---|---|---|
| STC Peak Power [Wp] | 260 | | 265 | |
| NOCT Peak Power [Wp] | 190 | | 194 | |
| Efficiency [%] | 15,9 | | 16,2 | |
| Test conditions | **STC** | **NOCT** | **STC** | **NOCT** |
| Voltage at Pmax Vmpp [V] | 31,59 | 28,68 | 31,92 | 28,99 |
| Current at Pmax Imp [A] | 8,24 | 6,61 | 8,32 | 6,67 |
| Open-circuit voltage Voc [V] | 38,22 | 35,19 | 38,49 | 35,49 |
| Short-circuit current Isc [A] | 8,78 | 7,12 | 8,85 | 7,24 |

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/m2, 25° C | <5 % |

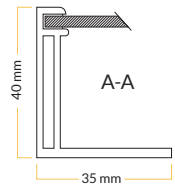
## DIMENSIONS AND WEIGHT:

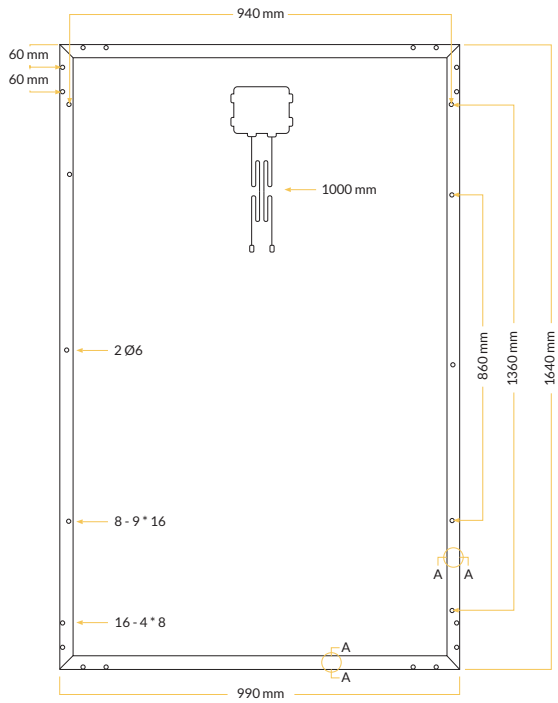
**Length:** 1640 mm

**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:

TÜV InterCert

**IEC 61215** **IEC 61730**

ISO 9001 ISO 14001 ISO 18001

Europe Solar Production

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Europe
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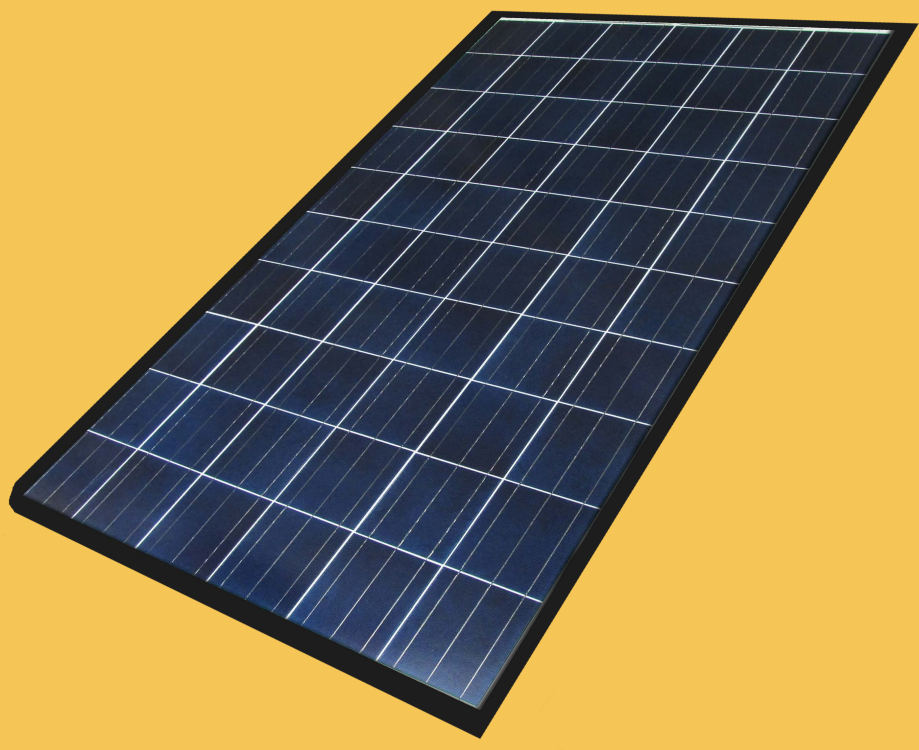
# Polycrystalline black Photovoltaic Module

Premium Quality Solar Module
Data sheet



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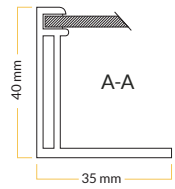


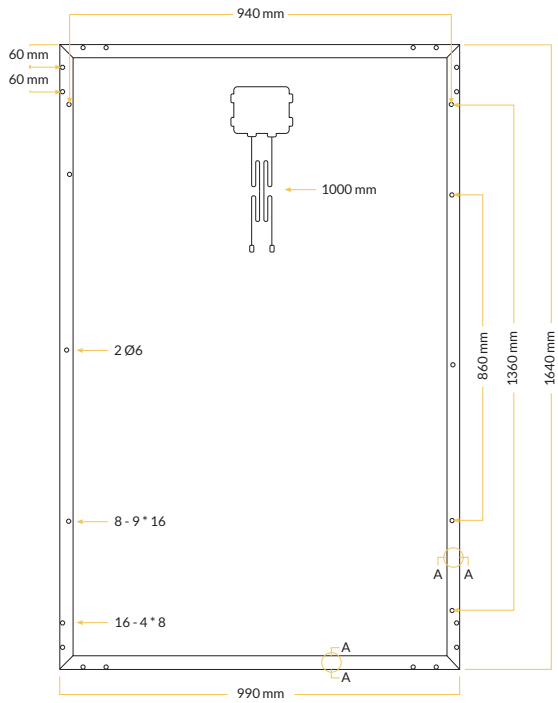


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