



# EUR 36-125

**Monocrystalline silicon photovoltaic module**  
**Power peak 80 W to 100 W**

## GENERAL DESCRIPTION

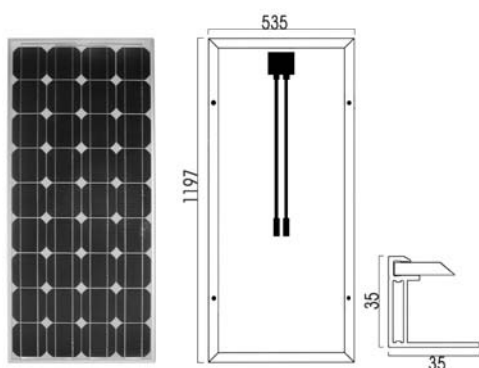
The EUR 36 photovoltaic modules are suitable for stand-alone systems, public and private lighting equipment, telemeter systems, traffic signs, telecommunication systems, etc. They use top quality elements in order to guarantee that its photovoltaic modules are reliable and cost-effective over a long period of time. They are manufactured in conformity with IEC 61215 standards.

## CHARACTERISTICS

- EUR 36-125 photovoltaic modules are designed with 36 monocrystalline silicon 125x125 mm cells.
- Cells are protected on the outside by a highly transparent 3.2 mm prismatic tempered glass and by a Tedlar sheet; the three layers are then vacuum encapsulated at high temperature between two sheets of EVA (Ethylene Vinyl Acetate).
- A strong anodized aluminum frame grants the modules extreme resistance.
- The production process ensures the cells maximum protection against toughest and critical operating and environmental conditions.
- EURSOLAR modules are manufactured by highly specialized personnel employing cutting edge technologies and machinery.

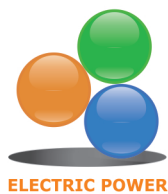


## DIMENSIONS



## MECHANICAL FEATURES AND PACKING

|                            |                                           |                                                 |
|----------------------------|-------------------------------------------|-------------------------------------------------|
| Module Dimensions          | (mm)                                      | 1197 x 535 x 35                                 |
| Module Weight              | (kg)                                      | 9.2                                             |
| Front Glass                | 3.2 mm thickness prismatic tempered glass |                                                 |
| Carton Dimensions          | (cm)                                      | 121.5 x 57 x h8.5                               |
| Pallet Dimensions          | (cm)                                      | 80 x 120 x h160 (large pallet 110 x 165 x h210) |
| Pallet Weight              | (kg)                                      | 400 (large 950)                                 |
| 1 Carton                   | 4 modules                                 |                                                 |
| 1 Euro Pallet              | 20 cartons (40 modules)                   |                                                 |
| 1 Large Pallet             | 50 cartons (100 modules)                  |                                                 |
| Container Loading Capacity | 20ft                                      | 600 modules (6 modules)                         |
|                            | 40ft                                      | 1400 modules (14 modules)                       |



## ELECTRIC POWER srl

energia de care ai nevoie

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### ELECTRICAL FEATURES

| Type                                      | EUR 36-125                                   | 80                                          | 85       | 90       | 95       | 100      |
|-------------------------------------------|----------------------------------------------|---------------------------------------------|----------|----------|----------|----------|
| Module Efficiency                         | $\eta_m$ (%)                                 | 12.60                                       | 13.30    | 14.10    | 15.00    | 15.80    |
| Cell Efficiency                           | $\eta_c$ (%)                                 | 15.00                                       | 15.90    | 16.80    | 17.50    | 18.00    |
| Power Peak                                | Pm (W)                                       | 80                                          | 85       | 90       | 95       | 100      |
| Max-Power Voltage                         | Vm (V)                                       | 18.20                                       | 18.50    | 18.50    | 18.65    | 18.75    |
| Max-Power Current                         | Im (A)                                       | 4.40                                        | 4.60     | 4.88     | 5.10     | 5.35     |
| Open-Circuit Voltage                      | Voc (V)                                      | 22.10                                       | 22.20    | 22.30    | 22.30    | 22.35    |
| Short-Circuit Current                     | Isc (A)                                      | 4.87                                        | 5.13     | 5.37     | 5.50     | 5.70     |
| Max-System Voltage                        | (VDC)                                        | 700                                         |          |          |          |          |
| Electrical Parameters Tolerance           | (%)                                          | ±5                                          |          |          |          |          |
| Cell Size                                 | (mm)                                         | 125 x 125                                   |          |          |          |          |
| Arrangement of cells                      | 36 cells in series - monocrystalline silicon |                                             |          |          |          |          |
| Max-Series Fuse                           | (A)                                          | 7                                           |          |          |          |          |
| Pm Temperature Coefficient                | (% / °C)                                     | - 0.45                                      |          |          |          |          |
| Voc Temperature Coefficient               | (% / °C)                                     | - 0.35                                      |          |          |          |          |
| Isc Temperature Coefficient               | (% / °C)                                     | 0.05                                        |          |          |          |          |
| NOCT - Nominal Operating Cell Temperature | (°C)                                         | 47 ± 2                                      |          |          |          |          |
| Operating and Storage Temperature         | (°C)                                         | - 40 ~ + 85                                 |          |          |          |          |
| Dielectric Insulation Voltage             | (VDC)                                        | 3,000 max                                   |          |          |          |          |
| Test Conditions                           | (STC)                                        | 1,000 W/m²; 1.5 AM e 25 °C cell temperature |          |          |          |          |
| Code                                      |                                              | 30050166                                    | 30050167 | 30050168 | 30050169 | 30050170 |

### JUNCTION BOX



- Quick fastening connectors
- 2 by-pass diodes
- 90 cm solar cables
- Line 3 connectors (MC3 compatible)

### WARRANTY:

- 3 YEAR LIMITED WARRANTY ON MATERIALS AND MANUFACTURING DEFECTS

The power output values shall be those measured under EURSOLAR standard measurement conditions as follows:

- light spectrum of AM 1.5;
- irradiation of 1,000 W per m<sup>2</sup>;
- a cell temperature of 25 °C.

