



EUR 36-125

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

GENERAL DESCRIPTION

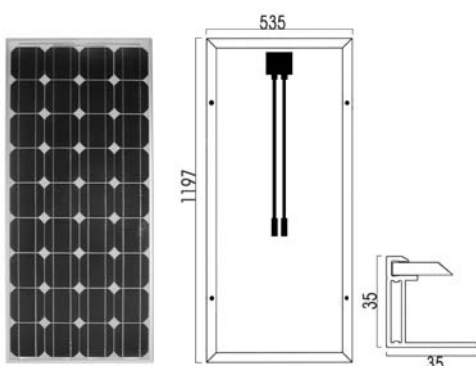
The EUR 36 photovoltaic modules are suitable for stand-alone systems, public and private lighting equipment, telemeter systems, traffic signs, telecommunication systems, etc. They use top quality elements in order to guarantee that its photovoltaic modules are reliable and cost-effective over a long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



ELECTRICAL FEATURES

Type	EUR 36-125	80	85	90	95	100
Module Efficiency	η_m (%)	12.60	13.30	14.10	15.00	15.80
Cell Efficiency	η_c (%)	15.00	15.90	16.80	17.50	18.00
Power Peak	P_m (W)	80	85	90	95	100
Max-Power Voltage	V_m (V)	18.20	18.50	18.50	18.65	18.75
Max-Power Current	I_m (A)	4.40	4.60	4.88	5.10	5.35
Open-Circuit Voltage	V_{oc} (V)	22.10	22.20	22.30	22.30	22.35
Short-Circuit Current	I_{sc} (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				
P_m Temperature Coefficient	(% / °C)	- 0.45				
V_{oc} Temperature Coefficient	(% / °C)	- 0.35				
I_{sc} 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/m ² ; 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 m²;
- a cell temperature of 25 °C.