



## FVG 36-125

Monocrystalline Silicon  
Photovoltaic Module  
Peak power 80 - 85 - 90 W

### GENERAL DESCRIPTION

The FVG 36-125 photovoltaic module are suitable for residential systems

Stand-Alone, office buildings, solar power station, solar villages, villas, mountain cottages, pumps, traffic signs, radio relay stations, telecommunication system, telemeter system, lighting equipment.

The number of the cell are 36 and the max system voltage DC is 700V.

The FVG 36-125 photovoltaic modules are certificated IEC 61215 and Class II isolation.

### CHARACTERISTICS

1. The FVG 36-125 photovoltaic modules are manufactured with 36 125x125 mm monocrystalline silicon cells.
2. The cells are laminated between sheets of ethylene vinyl acetate (EVA) and high-transmissivity low-iron 4mm tempered glass.
3. The production process ensures to the cells the maximum protection against critical and environment conditions.
4. Modules are extremely resistant thanks to the aluminum frame for extended outdoor use.

## ELECTRO-OPTICAL CHARACTERISTICS

Code	Type	Model	Module Efficiency	Cell Efficiency	Power Peak (W)	Vm (V)	Im (A)	Voc (V)	Isc (A)	Power Tolerance
50166	FVG 36 - 125	FVG 80M - MC	12,49%	14%	80	18,2	4,40	22,1	4,87	+/- 5%
50167	FVG 36 - 125	FVG 85M - MC	13,27%	14,9%	85	18,5	4,59	22,2	5,13	+/- 5%
50168	FVG 36 - 125	FVG 90M - MC	14,05%	15,7%	90	18,5	4,86	22,3	5,37	+/- 5%
50162	FVG 36 - 125	FVG 80M	12,49%	14%	80	18,2	4,40	22,1	4,87	+/- 5%
50163	FVG 36 - 125	FVG 85M	13,27%	14,9%	85	18,5	4,59	22,2	5,13	+/- 5%
50164	FVG 36 - 125	FVG 90M	14,05%	15,7%	90	18,5	4,86	22,3	5,37	+/- 5%

Electrical specifications at 1000 W/mq, 25° C, AM 1,5.

## WARRANTY

(Updated 01/02/2008)

### A: 3 Years Limited PV Modules Warranty

FVG Energy srl warrants the PV Module(s) to be free from the defects and/or failures specified below for a period not exceeding three (3) year from the date of sale to the original customer - ("Customer"):

- 1) defects and/or failures due to manufacturing;
- 2) defects and/or failures due to materials;
- 3) cracking of the front glass surface due to foreign objects inside the glass;

Note: This limited warranty shall exclude cracking of the front glass surface due to external shock from flying objects or external stress or transportation damages.

- 4) non-conformity to specifications due to faulty manufacturing and/or inspection processes.

If the PV Module(s) fails to conform to this warranty, FVG Energy srl will repair or replace the PV Module(s), at his sole option.

### B. Limited Power Output Warranty of 25 years (90%- 80%)

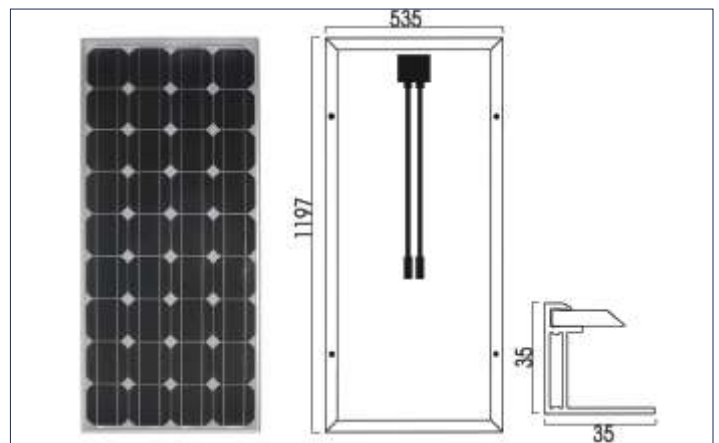
FVG Energy srl warrants that if:

- (a) within the first twelve point five (12,5) years from the date of sale to the Customer, the PV Module(s) exhibits a power output of less than ninety percent (90%) of the original minimum rated power specified at the time of sale (Power peak minus the power tolerance %);
- (b) within twentyfive (25) years from the date of sale to the Customer, the PV Module(s) exhibits a power output of less than eighty percent (80%) of the original minimum rated power specified at the time of sale (Power peak minus the power tolerance %)\*, FVG Energy will deliver additional PV Module(s) to replace the missing power output, or repair or replace the PV Module(s), at FVG Energy srl sole option.

\*The power output values shall be those measured under FVG Energy srl standard measurement conditions as follows: (a) light spectrum of AM 1.5; (b) irradiation of 1,000w per m<sup>2</sup>; and (c) a cell temperature of 25 degrees Centigrade.

For more information ask at your local dealer or directly at FVG Energy srl (www.fvgenergy.com) the full document of Warranty.

## DIMENSIONS AND PACKING



Module dimensions mm: 1197 x 535 x 35

Module Net Weight Kg: 9,2

Carton dimensions mm: 1215 x 570 x 85

Pallet dimensions cm: 80 x 120 x 160 - Weight: about 400 Kg

1 carton = 2 modules

1 pallet = 20 cartons = 40 modules

## JUNCTION BOX



Junction box with cables and waterproof connectors, mounted on code models: 50166-50167-50168. Cables length cm 90.



Standard junction box mounted on code models: 50162-50163-50164. With 2 Bypass diode.