# FVG 36-125 **MONOCRYSTALLINE 5**"



Silicon-wafer Monocrystalline photovoltaic module with power peak from 85 W to 100 W

# **APPLICATIONS**



Residential, commercial and agricultural

12V stand-alone systems (or multiples)

The FVG 36-125 modules are ideal for stand-alone systems, public and private lighting, survey and data transmission systems, road signs, telecommunication and other specific applications

## FEATURES



Excellent performances even during low solar radiation (cloudiness,





3.2 mm solar-grade tempered prismatic glass



morning or evening) Heavy load mechanical



resistance: TÜV certified (5.400 Pa tested against snow and 2.400 Pa test against wind)

High efficiency level up to	
15.60%	



Strict and continuous

to shipment

quality controls during all

the production phases up





## **ITALIAN WARRANTY**

5 years commercial warranty – 25 years performance warranty

#### Commercial

- Standard 5 years on materials and manufacturing defects
- Can be extended to 10 years on request

#### Performance

- Power not less than 90% of power peak during the first 10 years
- Power not less than 80% of power
- peak during the subsequent 15 years





#### JUNCTION BOX

Strong and reliable with 2 by-pass diodes. High performance IP67 connectors guarantee maximum safety and duration over time to maximise the power generated by the modules.





NOCT

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### **ELECTRICAL FEATURES**

					STC
Туре	Model	xxx Rated Power [W]		<b>V</b> ]	
FVG 36-125	FVG xxxM-MC*	85	90	95	100
Module Efficiency	ŋm (%)	13.27	14.05	14.83	15.60
Cell Efficiency	ŋc (%)	15.90	16.80	17.50	18.00
Power Peak	Pm (W)	85	90	95	100
Maximum Power Voltage	Vm (V)	18.50	18.50	18.65	18.75
Maximum Power Current	lm (A)	4.60	4.88	5.10	5.35
Open Circuit Voltage	Voc (V)	22.20	22.30	22.30	22.35
Short Circuit Current	lsc (A)	5.13	5.37	5.50	5.70
Maximum System Voltage	(VDC)	700			
Power Output Tolerance	(%)	- 3 / + 3			
Max-Series Fuse	(A)	10			
Operating/Storage Temp.	(°C)	- 40 ~ + 85			•••••
Dielectric Insulation Voltage	(VDC)	3,000 max			
Code	MFM	50167	50168	50169	50170
STC: Irradiance 1,000 W/m <sup>2</sup> , module temperature 25 °C, AM=1.5 Power measurement tolerance: ± 3%					



Typical Power at NOCT	Pm (W)	62	66	70	74
Maximum Power Voltage	Vm (V)	16.50	16.55	16.64	16.80
Maximum Power Current	lm (A)	3.80	4.00	4.30	4.40
Open Circuit Voltage	Voc (V)	20.58	20.63	20.70	20.80
Short Circuit Current	lsc (A)	4.52	4.60	4.66	4.75
NOCT: Irradiance 800 W/m <sup>2</sup> , ambient temperature 20 °C, wind speed 1 m/s					

Power measurement tolerance: ± 3%
TEMPERATURE CHARACTERISTICS - STC

NOCT - Nominal Operating Cell Temperature	(°C)	45 ± 2
Pm Temperature Coefficient	(%/°C)	- 0.45
Voc Temperature Coefficient	(%/°C)	- 0.34
Isc Temperature Coefficient	(%/°C)	0.05

MECHANICAL FEATURES			
Cell Size	(mm)	125 x 125	
Number of cells		36 cells - monocrystalline silicon	
Module Dimensions	(mm)	1,197 x 535 x 35	
Module Weight	(kg)	9.2	
Front Glass	3.2 mm tempered glass		
Frame	anodized aluminium alloy		
Junction box	2 by-pass diodes		
Connectors		IP67 type MC3 or MC4	
Output Cables	(mm)	900	

PACKING FEATURES			
Carton Dimensions	(mm)	1,215 x 570 x h175	
Pallet Dimensions (small)	(mm)	1,200 x 800 x h1,900	
Pallet Dimensions (large)	(mm)	1,650 x 1,100 x h2,100	
Pallet Weight	(kg)	400 (large 950)	
1 Carton	4 modules		
1 Euro pallet	10 cartons (40 modules)		
1 Large pallet	25 cartons (100 modules)		
Container Loading Capacity	20(ft)	600 modules (6 pallets)	
	40(ft)	1,400 modules (14 pallets)	

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\* xxx suffix indicates Rated Power [W]