

# FVG 72-125

## MONOCRYSTALLINE 5"



**Silicon-wafer Monocrystalline photovoltaic module with power peak from 185 W to 200 W**

### APPLICATIONS



Residential, commercial and agricultural



24V stand-alone systems (or multiples)



Architectural integration (French market)



PV parks

### FEATURES



Excellent performances even during low solar radiation (cloudiness, morning or evening)



3.2 mm solar-grade tempered prismatic glass



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



Strict and continuous quality controls during all the production phases up to shipment



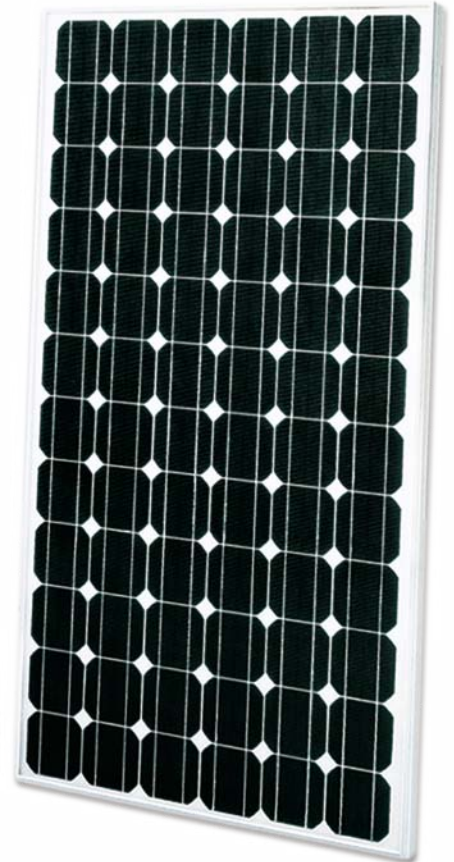
High efficiency level up to 15.66%



Custom-made modules even in "All Black" version



Positive tolerance on power peak of every module



### ITALIAN WARRANTY

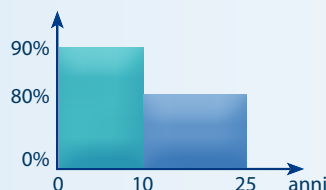
**5 years commercial warranty – 25 years performance warranty**

#### 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 3 by-pass diodes. High performance IP67 connectors guarantee maximum safety and duration over time to maximise the power generated by the modules.



### ELECTRICAL FEATURES

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STC					
Type	Model	xxx Rated Power [W]			
<b>FVG 72-125</b>	<b>FVG xxxM-MC*</b>	<b>185</b>	<b>190</b>	<b>195</b>	<b>200</b>
Module Efficiency	$\eta_m$ (%)	14.50	14.90	15.27	15.66
Cell Efficiency	$\eta_c$ (%)	17.30	17.50	17.80	18.00
Power Peak	Pm (W)	185	190	195	200
Maximum Power Voltage	Vm (V)	36.40	36.60	36.80	37.10
Maximum Power Current	Im (A)	5.10	5.20	5.30	5.40
Open Circuit Voltage	Voc (V)	44.50	45.20	44.65	44.70
Short Circuit Current	Isc (A)	5.53	5.62	5.72	5.80
Maximum System Voltage	(VDC)	1,000			
Power Output Tolerance	(W)	0 / + 5			
Max-Series Fuse	(A)	10			
Operating/Storage Temp.	(°C)	- 40 ~ + 85			
Dielectric Insulation Voltage	(VDC)	3,000 max			
Code	MFM	50187	50188	50189	50190
STC: Irradiance 1,000 W/m <sup>2</sup> , module temperature 25 °C, AM=1.5 Power measurement tolerance: ± 3%					

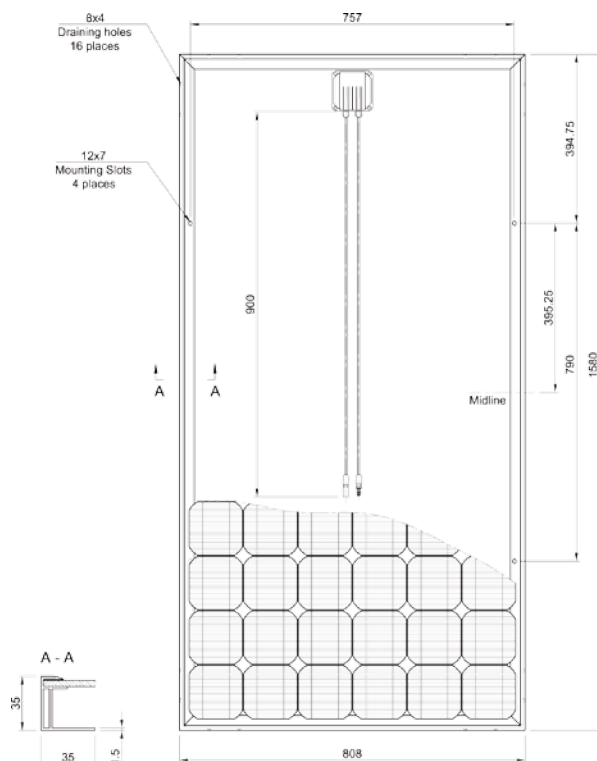
NOCT					
Typical Power at NOCT	Pm (W)	135	139	143	147
Maximum Power Voltage	Vm (V)	33.00	33.10	33.28	33.60
Maximum Power Current	Im (A)	4.11	4.20	4.30	4.38
Open Circuit Voltage	Voc (V)	41.20	41.30	41.45	41.60
Short Circuit Current	Isc (A)	4.48	4.56	4.66	4.75
NOCT: Irradiance 800 W/m <sup>2</sup> , ambient temperature 20 °C, wind speed 1 m/s Power measurement tolerance: ± 3%					

### TEMPERATURE CHARACTERISTICS - STC

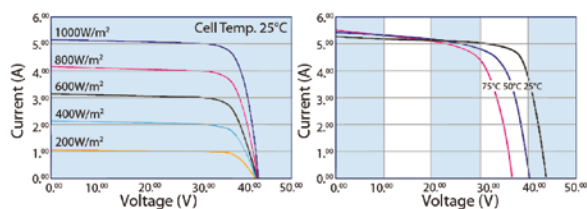
NOCT - Nominal Operating Cell Temperature	(°C)	45 ± 2
Pm Temperature Coefficient	(%/°C)	- 0.45
Voc Temperature Coefficient	(%/°C)	- 0.34
Isc Temperature Coefficient	(%/°C)	0.05

### MECHANICAL FEATURES

Cell Size	(mm)	125 x 125
Number of cells		72 cells - monocrystalline silicon
Module Dimensions	(mm)	1,580 x 808 x 35
Module Weight	(kg)	15.50
Front Glass		3.2 mm tempered glass
Frame		anodized aluminium alloy
Junction box		3 by-pass diodes
Connectors		IP67 type MC3 or MC4
Output Cables	(mm)	900



### CURVE CURRENT - VOLTAGE



### PACKING FEATURES

Carton Dimensions	(mm)	1,610 x 830 x h85
Pallet Dimensions	(mm)	1,650 x 1,100 x h1,950
Pallet Weight	(kg)	825
1 Carton		2 modules
1 Pallet		25 cartons (50 modules)
Container Loading Capacity	20(ft)	300 modules (6 pallets)
	40(ft)	700 modules (14 pallets)

\* xxx suffix indicates Rated Power [W]  
suffix B indicates a black sheet of Tedlar