

FVG 72-156

MONOCRYSTALLINE 6"



Silicon-wafer Monocrystalline photovoltaic module with power peak from 285 W to 300 W

APPLICATIONS



Residential, commercial and agricultural



24V stand-alone systems (or multiples)



PV parks

FEATURES



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



4 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 15.46%



Custom-made modules even in "All Black" version



Positive tolerance on power peak of every module



ITALIAN WARRANTY

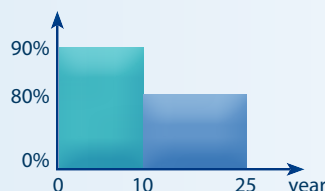
5 years commercial warranty – 25 years performance warranty

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



ELECTRICAL FEATURES

STC					
Type	Model	xxx Rated Power [W]			
FVG 72-156	FVG xxxM-MC*	285	290	295	300
Module Efficiency	η_m (%)	14.68	14.94	15.20	15.46
Cell Efficiency	η_c (%)	16.55	16.90	17.20	17.50
Power Peak	Pm (W)	285	290	295	300
Maximum Power Voltage	Vm (V)	36.50	36.60	36.70	36.80
Maximum Power Current	Im (A)	7.85	7.95	8.05	8.17
Open Circuit Voltage	Voc (V)	44.90	45.00	45.10	45.20
Short Circuit Current	Isc (A)	8.30	8.38	8.48	8.58
Maximum System Voltage	(VDC)	1,000			
Power Output Tolerance	(W)	0 / + 5			
Max-Series Fuse	(A)	20			
Operating/Storage Temp.	(°C)	- 40 ~ + 85			
Dielectric Insulation Voltage	(VDC)	3,000 max			
Code	MFM	50313	50314	50315	50316
STC: Irradiance 1,000 W/m ² , module temperature 25 °C, AM=1.5					
Power measurement tolerance: ± 3%					

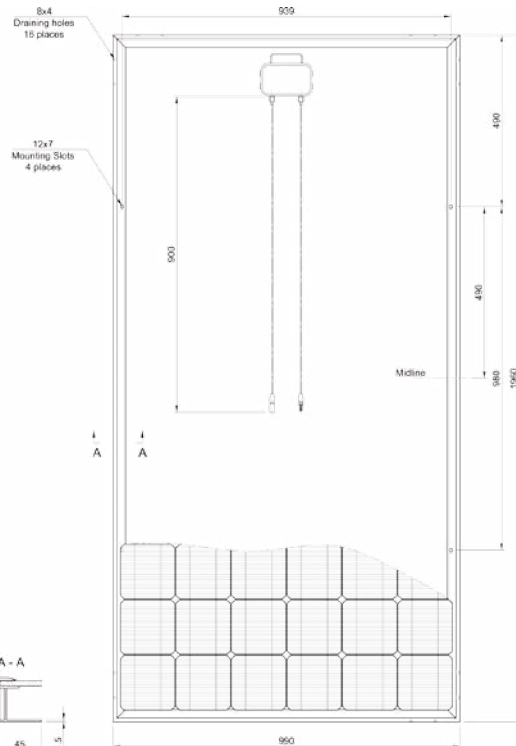
NOCT					
Typical Power at NOCT	Pm (W)	208	212	215	218
Maximum Power Voltage	Vm (V)	32.60	32.70	32.75	32.79
Maximum Power Current	Im (A)	6.39	6.50	6.60	6.66
Open Circuit Voltage	Voc (V)	40.80	40.90	40.96	40.99
Short Circuit Current	Isc (A)	6.75	6.80	6.83	6.87
NOCT: Irradiance 800 W/m ² , ambient temperature 20 °C, wind speed 1 m/s					
Power measurement tolerance: ± 3%					

TEMPERATURE CHARACTERISTICS - STC

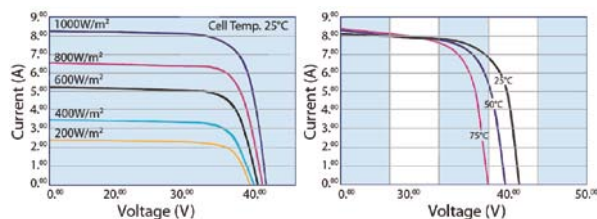
NOCT - Nominal Operating Cell Temperature	(°C)	45 ± 2
Pm Temperature Coefficient	(%/°C)	- 0.45
Voc Temperature Coefficient	(%/°C)	- 0.34
Isc Temperature Coefficient	(%/°C)	0.05

MECHANICAL FEATURES

Cell Size	(mm)	156 x 156
Number of cells		72 cells - monocrystalline silicon
Module Dimensions	(mm)	1,960 x 990 x 45
Module Weight	(kg)	27
Front Glass		4 mm tempered glass
Frame		anodized aluminium alloy
Junction box		6 by-pass diodes
Connectors		IP67 type MC3 or MC4
Output Cables	(mm)	900



CURVE CURRENT - VOLTAGE



PACKING FEATURES

Carton Dimensions	(mm)	2,020 x 1,030 x h105
Pallet Dimensions	(mm)	2,050 x 1,050 x h2,150
Pallet Weight	(kg)	1,180
1 Carton		2 modules
1 Pallet		19 cartons (38 modules)
Container Loading Capacity	20ft	190 modules (5 pallets)
	40ft	418 modules (11 pallets)

* xxx suffix indicates Rated Power [W]