

FVG 96-125

MONOCRYSTALLINE 5"



Silicon-wafer Monocrystalline photovoltaic module with power peak from 245 W to 260 W

APPLICATIONS



Residential, commercial and agricultural



PV parks



Architectural integration (French market)

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 15.42%



Custom-made modules even in "All Black" version



Positive tolerance on power peak of every module



ITALIAN WARRANTY

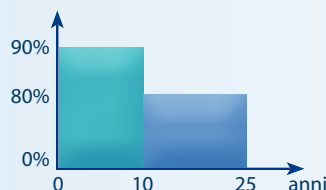
10 years commercial warranty – 25 years performance warranty

Commercial

- 10 years on materials and manufacturing defects

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



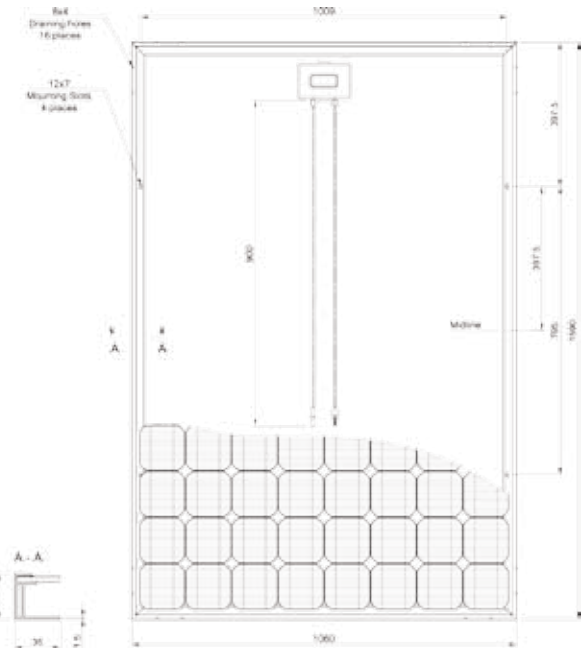
JUNCTION BOX

Strong and reliable with 4 by-pass diodes. High performance IP67 connectors guarantee maximum safety and duration over time to maximise the power generated by the modules.



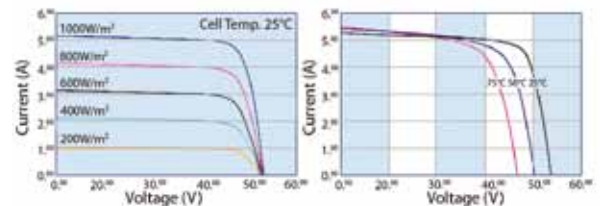
ELECTRICAL FEATURES

ELECTRICAL FEATURES					
STC					
Type	Model	xxx Rated Power [W]			
FVG 96-125	FVG xxxM-MC*	245	250	255	260
Module Efficiency	η_m (%)	14.53	14.83	15.12	15.42
Cell Efficiency	η_c (%)	17.30	17.50	17.80	18.00
Power Peak	P_m (W)	245	250	255	260
Maximum Power Voltage	V_m (V)	49.50	49.80	49.90	50.00
Maximum Power Current	I_m (A)	4.98	5.10	5.15	5.25
Open Circuit Voltage	V_{oc} (V)	59.40	59.55	59.60	59.75
Short Circuit Current	I_{sc} (A)	5.40	5.50	5.60	5.70
Maximum System Voltage	(VDC)	1000			
Power Output Tolerance	(W)	0 / + 5			
Max-Series Fuse	(A)	10			
Operating/Storage Temp.	(°C)	- 40 ~ + 85			
Dielectric Insulation Voltage	(VDC)	3000 max			
Code	MFM	50273	50274	50275	50276
STC: Irradiance 1000 W/m ² , module temperature 25 °C, AM=1.5					
Power measurement tolerance: ± 3%					



NOCT					
Typical Power at NOCT	P_m (W)	180	184	188	192
Maximum Power Voltage	V_m (V)	44.90	45.00	45.10	45.20
Maximum Power Current	I_m (A)	4.03	4.10	4.17	4.25
Open Circuit Voltage	V_{oc} (V)	54.45	54.50	54.55	55.00
Short Circuit Current	I_{sc} (A)	4.36	4.46	4.56	4.62
NOCT: Irradiance 800 W/m ² , ambient temperature 20 °C, wind speed 1 m/s					
Power measurement tolerance: ± 3%					

CURVE CURRENT - VOLTAGE



TEMPERATURE CHARACTERISTICS - STC		
NOCT - Nominal Operating Cell Temperature	(°C)	45 ± 2
P_m Temperature Coefficient	(%/°C)	- 0.45
V_{oc} Temperature Coefficient	(%/°C)	- 0.34
I_{sc} Temperature Coefficient	(%/°C)	0.05

MECHANICAL FEATURES

Cell Size	(mm)	125 x 125
Number of cells		96 cells - monocrystalline silicon
Module Dimensions	(mm)	1590 x 1060 x 35
Module Weight	(kg)	23
Front Glass		4 mm tempered glass
Frame		anodized aluminium alloy
Junction box		4 by-pass diodes
Connectors		IP67 type MC3 or MC4
Output Cables	(mm)	900

PACKING FEATURES

Carton Dimensions	(mm)	1650 x 1100 x h85
Pallet Dimensions	(mm)	1650 x 1100 x h1850
Pallet Weight	(kg)	995
1 Carton		2 modules
1 Pallet		20 cartons (40 modules)
Container Loading Capacity	20ft	240 modules (6 pallets)
	40ft	560 modules (14 pallets)

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