FVG 84-125
MONOCRYSTALLINE 5"

Silicon-wafer Monocrystalline photovoltaic module with power peak from 215 W to 230 W

APPLICATIONS

Residential, commercial and agricultural

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 15.47%

Custom-made modules even in "All Black" version

Positive tolerance on power peak of every module
0 / + 5W

TÜV   1000 VDC   IEC 61730-1 61730-2   IEC 61215-2   ISO   CE
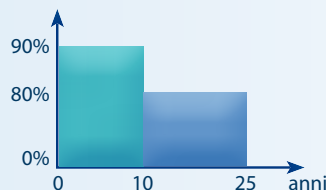
ITALIAN WARRANTY
5 years commercial warranty – 25 years performance warranty

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
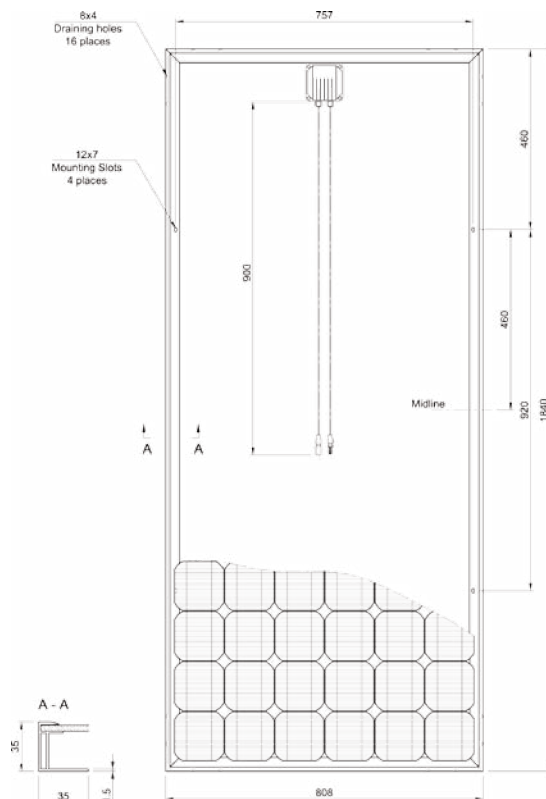
90%
80%
0%
0   10   25   anni

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.
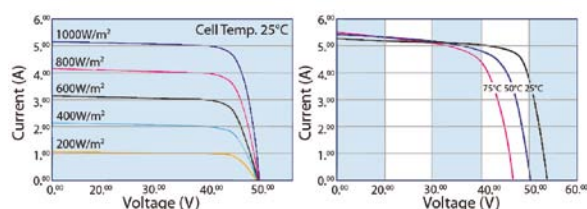
ELECTRICAL FEATURES

Type	Model	xxx Rated Power [W] STC			
FVG 84-125	**FVG xxxM-MC***	**215**	**220**	**225**	**230**
Module Efficiency	ηm (%)	14.46	14.80	15.13	15.47
Cell Efficiency	ηc (%)	17.30	17.50	17.70	17.90
Power Peak	Pm (W)	215	220	225	230
Maximum Power Voltage	Vm (V)	43.40	43.52	43.64	43.75
Maximum Power Current	Im (A)	4.96	5.10	5.17	5.30
Open Circuit Voltage	Voc (V)	51.92	51.97	52.10	52.15
Short Circuit Current	Isc (A)	5.40	5.50	5.60	5.70
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	50263	50264	50265	50266

STC: Irradiance 1,000 W/m², module temperature 25 °C, AM=1.5
Power measurement tolerance: ± 3%

		NOCT			
Typical Power at NOCT	Pm (W)	160	163	167	171
Maximum Power Voltage	Vm (V)	39.20	39.35	39.57	39.96
Maximum Power Current	Im (A)	4.10	4.15	4.22	4.28
Open Circuit Voltage	Voc (V)	47.20	47.29	47.41	47.45
Short Circuit Current	Isc (A)	4.37	4.46	4.56	4.62

NOCT: Irradiance 800 W/m², 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		84 cells - monocrystalline silicon
Module Dimensions	(mm)	1,840 x 808 x 35
Module Weight	(kg)	20
Front Glass		4 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)	1,910 x 850 x h85	
Pallet Dimensions	(mm)	1,910 x 1,100 x h1,950	
Pallet Weight	(kg)	1,090	
1 Carton		2 modules	
1 Pallet		25 cartons (50 modules)	
Container Loading Capacity	20(ft)	300 modules (6 pallets)	
	40(ft)	600 modules (12 pallets)	

* xxx suffix indicates Rated Power [W]