

# 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



### ITALIAN WARRANTY

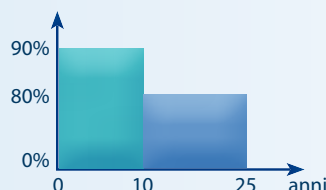
**10 years commercial warranty – 25 years performance warranty**

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 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

		STC			
Type	Model	xxx Rated Power [W]			
<b>FVG 84-125</b>	<b>FVG xxxM-MC*</b>	<b>215</b>	<b>220</b>	<b>225</b>	<b>230</b>
Module Efficiency	$\eta_m$ (%)	14.46	14.80	15.13	15.47
Cell Efficiency	$\eta_c$ (%)	17.30	17.50	17.70	17.90
Power Peak	$P_m$ (W)	215	220	225	230
Maximum Power Voltage	$V_m$ (V)	43.40	43.52	43.64	43.75
Maximum Power Current	$I_m$ (A)	4.96	5.10	5.17	5.30
Open Circuit Voltage	$V_{oc}$ (V)	51.92	51.97	52.10	52.15
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	50263	50264	50265	50266
STC: Irradiance 1000 W/m <sup>2</sup> , module temperature 25 °C, AM=1.5 Power measurement tolerance: ± 3%					

## NOCT

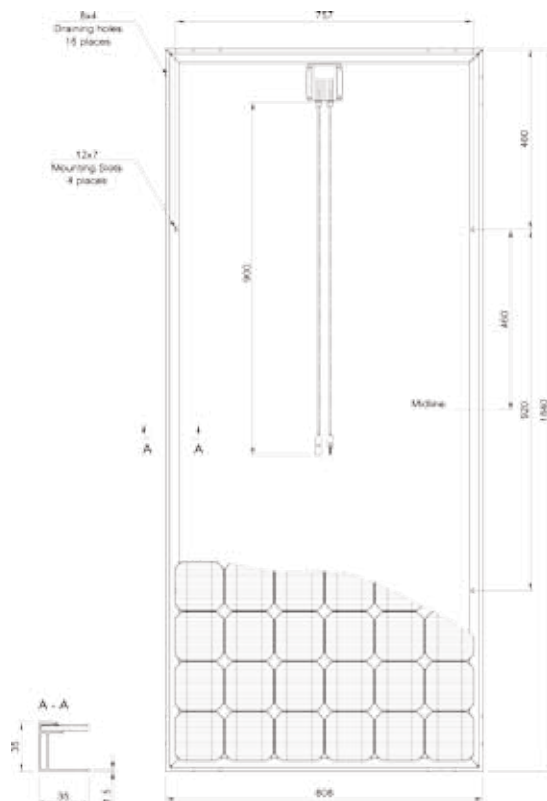
Typical Power at NOCT	$P_m$ (W)	160	163	167	171
Maximum Power Voltage	$V_m$ (V)	39.20	39.35	39.57	39.96
Maximum Power Current	$I_m$ (A)	4.10	4.15	4.22	4.28
Open Circuit Voltage	$V_{oc}$ (V)	47.20	47.29	47.41	47.45
Short Circuit Current	$I_{sc}$ (A)	4.37	4.46	4.56	4.62
NOCT: Irradiance 800 W/m <sup>2</sup> , ambient temperature 20 °C, wind speed 1 m/s Power measurement tolerance: ± 3%					

## TEMPERATURE CHARACTERISTICS - STC

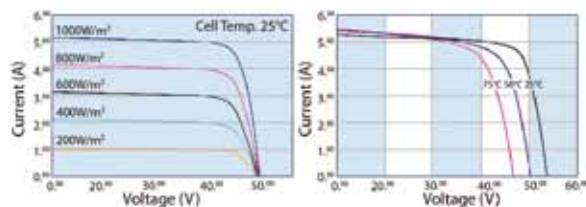
NOCT - Nominal Operating Cell Temperature	(°C)	45 ± 2
$P_m$ Temperature Coefficient	(%/°C)	- 0.45
$V_{oc}$ Temperature Coefficient	(%/°C)	- 0.34
$I_{sc}$ Temperature Coefficient	(%/°C)	0.05

## MECHANICAL FEATURES

Cell Size	(mm)	125 x 125
Number of cells		84 cells - monocrystalline silicon
Module Dimensions	(mm)	1840 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 MC4
Output Cables	(mm)	900



## CURVE CURRENT - VOLTAGE



## PACKING FEATURES

Carton Dimensions	(mm)	1910 x 850 x h85
Pallet Dimensions	(mm)	1910 x 1100 x h1950
Pallet Weight	(kg)	1090
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]