

FVG 96-125Z

MONOCRYSTALLINE 5"



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

APPLICATIONS



Residential, industrial, commercial and agricultural



PV parks



Architectural integration (French market)

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)



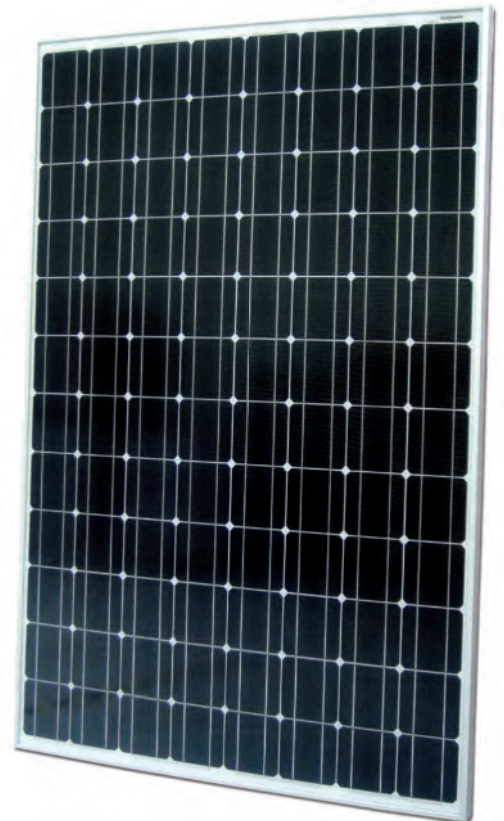
Strict and continuous quality controls during all the production phases up to shipment



High efficiency level up to 15.39%



Custom-made modules even in "All Black" version



ITALIAN WARRANTY

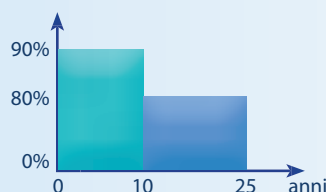
10 years commercial warranty – 25 years performance warranty

Commercial

- 10 years on materials and manufacturing defects
- with specific additional insurance cover by "Chubb Group of Insurance Companies"

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 IP65 connectors guarantee maximum safety and duration over time to maximise the power generated by the modules.

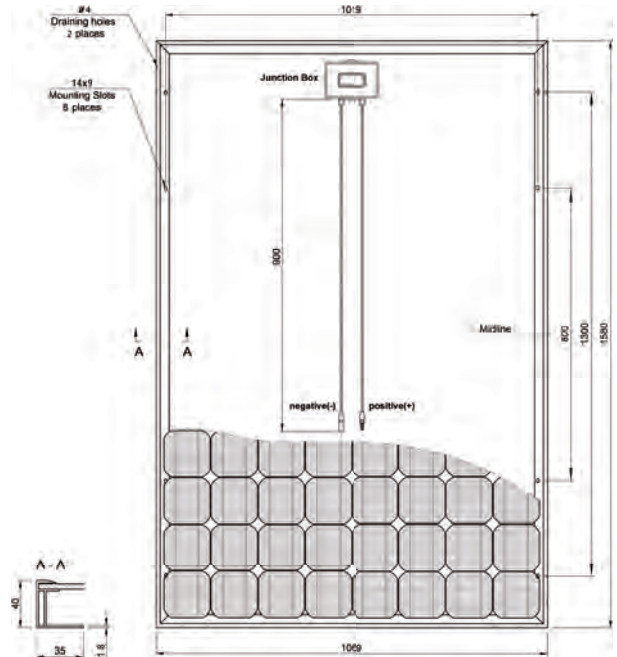




ELECTRICAL FEATURES

STC					
Type	Model	xxx Rated Power [W]			
FVG 96-125Z	FVG-xxxM5-96A*	245	250	255	260
Module Efficiency	η_m (%)	14.50	14.80	15.10	15.39
Cell Efficiency	η_c (%)	16.90	17.10	17.40	17.90
Power Peak	Pm (W)	245	250	255	260
Maximum Power Voltage	Vm (V)	49.00	49.50	50.00	50.50
Maximum Power Current	Im (A)	5.00	5.05	5.10	5.15
Open Circuit Voltage	Voc (V)	60.00	60.00	60.20	60.50
Short Circuit Current	Isc (A)	5.44	5.47	5.53	5.56
Maximum System Voltage	(VDC)	1000			
Power Output Tolerance	(%)	-1 / +3			
Max-Series Fuse	(A)	10			
Operating/Storage Temp.	(°C)	-40 ~ +85			
Dielectric Insulation Voltage	(VDC)	3000 max			
Code	MFM	50273Z	50274Z	50275Z	50276Z

STC: Irradiance 1000 W/m², module temperature 25 °C, AM=1.5
Power measurement tolerance: ± 3%



NOCT					
Typical Power at NOCT	Pm (W)	180	184	188	192
Maximum Power Voltage	Vm (V)	44.90	45.00	45.10	45.20
Maximum Power Current	Im (A)	4.03	4.10	4.17	4.25
Open Circuit Voltage	Voc (V)	54.45	54.50	54.55	55.00
Short Circuit Current	Isc (A)	4.36	4.46	4.56	4.62

NOCT: Irradiance 800 W/m², ambient temperature 20 °C, wind speed 1 m/s
Power measurement tolerance: ± 3%

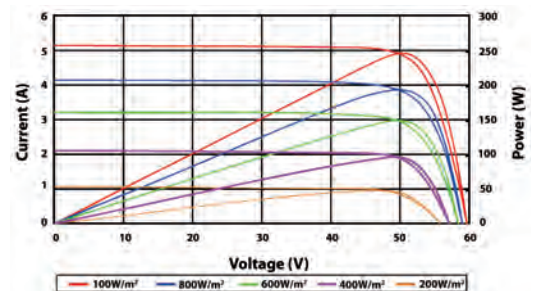
TEMPERATURE CHARACTERISTICS - STC

NOCT - Nominal Operating Cell Temperature	(°C)	44.5 ± 2
Pm Temperature Coefficient	(%/°C)	-0.45
Voc Temperature Coefficient	(%/°C)	-0.348
Isc Temperature Coefficient	(%/°C)	0.031

MECHANICAL FEATURES

Cell Size	(mm)	125 x 125
Number of cells		96 cells - monocrystalline silicon
Module Dimensions	(mm)	1580 x 1069 x 40
Module Weight	(kg)	24.50
Front Glass		3.2 mm tempered glass
Frame		anodized aluminium alloy
Junction box		4 by-pass diodes
Connectors		IP65 type MC4
Output Cables	(mm)	900

CURVE CURRENT - VOLTAGE



PACKING FEATURES

Carton Dimensions	(mm)	1650 x 1100 x h85
Pallet Dimensions	(mm)	1650 x 1100 x h2105
Pallet Weight	(kg)	1200
1 Carton		2 modules
1 Pallet		23 cartons (46 modules)
Container Loading Capacity 20	(ft)	276 modules (6 pallets)
Container Loading Capacity 40	(ft)	644 modules (14 pallets)

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