

FVG 60-156Z

POLYCRYSTALLINE 6"



Silicon-wafer Polycrystalline photovoltaic module with power peak from 225 W to 240 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 14.75%



Custom-made modules even in "All Black" version



ITALIAN WARRANTY

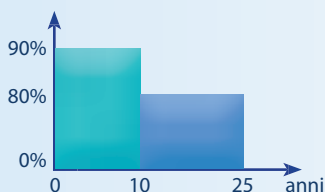
10 years commercial warranty – 25 years performance warranty

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 6 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 60-156Z	FVG-xxxP6-60A*	230	240	250	260
Module Efficiency	η_m (%)	14.14	14.75	15.06	15.67
Cell Efficiency	η_c (%)	15.80	16.40	17.59	18.29
Power Peak	P_m (W)	230	240	250	260
Maximum Power Voltage	V_m (V)	30.00	30.50	30.45	31.06
Maximum Power Current	I_m (A)	7.67	7.87	8.21	8.37
Open Circuit Voltage	V_{oc} (V)	37.25	38.00	37.45	37.59
Short Circuit Current	I_{sc} (A)	8.26	8.39	8.72	8.85
Maximum System Voltage	(VDC)	1000			
Power Output Tolerance	(%)	-1 / +3			
Max-Series Fuse	(A)	20			
Operating/Storage Temp.	(°C)	-40 ~ +85			
Dielectric Insulation Voltage	(VDC)	3000 max			
Code	MFP	50236Z	50238Z	50240Z	50242Z

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

NOCT

Typical Power at NOCT	P_m (W)	169	176		
Maximum Power Voltage	V_m (V)	27.20	27.40		
Maximum Power Current	I_m (A)	6.22	6.45		
Open Circuit Voltage	V_{oc} (V)	34.00	34.40		
Short Circuit Current	I_{sc} (A)	6.71	6.84		

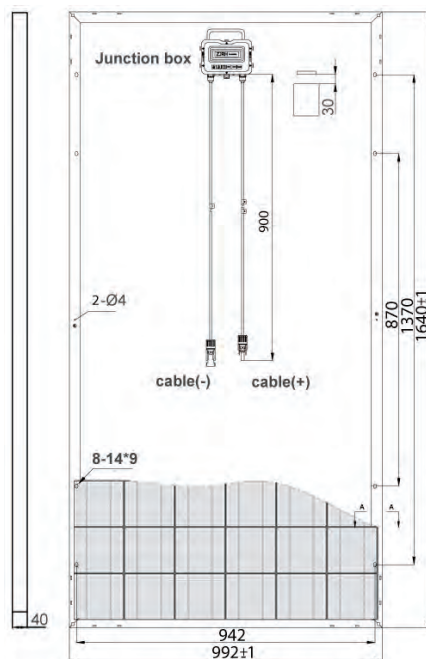
NOCT: Irradiance 800 W/m², ambient temperature 20 °C, wind speed 1 m/s
Power measurement tolerance: ± 3%

TEMPERATURE CHARACTERISTICS - STC

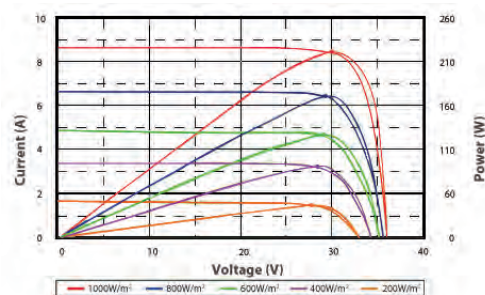
NOCT - Nominal Operating Cell Temperature	(°C)	45 ± 2
P_m Temperature Coefficient	(%/°C)	-0.47
V_{oc} Temperature Coefficient	(%/°C)	-0.351
I_{sc} Temperature Coefficient	(%/°C)	0.035

MECHANICAL FEATURES

Cell Size	(mm)	156 x 156 (6 inch)
Number of cells		60 cells - polycrystalline silicon
Module Dimensions	(mm)	1640 x 992 x 40
Module Weight	(kg)	19.50
Front Glass		3.2 mm tempered glass
Frame		anodized aluminum alloy
Junction box		6 by-pass diodes
Connectors		IP65 type MC4
Output Cables	(mm)	900



CURVE CURRENT - VOLTAGE



PACKING FEATURES

Carton Dimensions	(mm)	1700 x 1050 x h90
Pallet Dimensions	(mm)	1700 x 1100 x h2220
Pallet Weight	(kg)	975
1 Carton		2 modules
1 Pallet		23 cartons (46 modules)
Container Loading Capacity	20(ft)	276 modules (6 pallets)
	40(ft)	644 modules (14 pallets)

* xxx suffix indicates Rated Power [W]