# FVG 60-156 **POLYCRYSTALLINE 6**"



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

**PV** parks

# **APPLICATIONS**



Residential, commercial and agricultural



Architectural integration (French market)

## **FEATURES**



Excellent performances even during low solar radiation (cloudiness, morning or evening)





4 mm solar-grade tempered prismatic glass

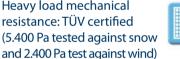
Strict and continuous

quality controls during all

the production phases up



Heavy load mechanical









Positive tolerance on power peak of individual module





Custom-made modules even in "All Black" version





## **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



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- 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 IP67 connectors guarantee maximum safety and duration over time to maximise the power generated by the modules.





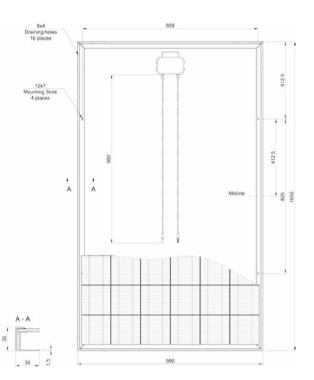
#### **ELECTRICAL FEATURES**

					STC
Туре	Model	xxx Rated Power [W]			V]
FVG 60-156	FVG xxxP-MC*	225	230	235	240
Module Efficiency	ŋm (%)	13.77	14.08	14.38	14.70
Cell Efficiency	ŋc (%)	15.45	15.80	16.15	16.50
Power Peak	Pm (W)	225	230	235	240
Maximum Power Voltage	Vm (V)	30.00	30.30	30.40	30.50
Maximum Power Current	Im (A)	7.50	7.60	7.75	7.88
Open Circuit Voltage	Voc (V)	37.00	37.20	37.40	37.60
Short Circuit Current	lsc (A)	8.07	8.14	8.21	8.28
Maximum System Voltage	(VDC)		1,0	000	
Power Output Tolerance	(W)		0 /	+ 5	
Max-Series Fuse	(A)		2	0	
Operating/Storage Temp.	(°C)	- 40 ~ + 85			
Dielectric Insulation Voltage	(VDC)	3,000 max			
Code	MFP	50235	50236	50237	50238
STC: Irradiance 1,000 W/m <sup>2</sup> , module temperature 25 °C, AM=1.5 Power measurement tolerance: ± 3%					

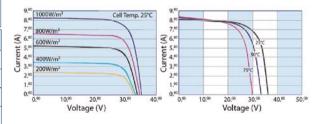
					NOCT
Typical Power at NOCT	Pm (W)	165	169	173	176
Maximum Power Voltage	Vm (V)	26.90	27.20	27.30	27.40
Maximum Power Current	Im (A)	6.12	6.22	6.35	6.45
Open Circuit Voltage	Voc (V)	33.80	34.00	34.20	34.40
Short Circuit Current	lsc (A)	6.65	6.71	6.77	6.84
NOCT: Irradiance 800 W/m <sup>2</sup> , ambient temperature 20 °C, wind speed 1 m/s Power measurement tolerance: ± 3%					

TEMPERATURE CHARACTERISTICS - STC				
NOCT - Nominal Operating Cell Temperature	(°C)	45 ± 2		
Pm Temperature Coefficient	(%/°C)	- 0.44		
Voc Temperature Coefficient	(%/°C)	- 0.33		
Isc Temperature Coefficient	(%/°C)	0.055		

MECHANICAL FEATURES				
Cell Size	(mm)	156 x 156		
Number of cells		60 cells - polycrystalline silicon		
Module Dimensions	(mm)	1,650 x 990 x 35		
Module Weight	(kg)	21.50		
Front Glass		4 mm tempered glass		
Frame		anodized aluminlum alloy		
Junction box		6 by-pass diodes		
Connectors		IP67 type MC3 or MC4		
Output Cables	(mm)	(mm) 900		



### **CURVE CURRENT - VOLTAGE**



PACKING FEATURES			
Carton Dimensions	(mm)	1,700 x 1,050 x h85	
Pallet Dimensions	(mm)	1,700 x 1,100 x h2,000	
Pallet Weight	(kg)	1,090	
1 Carton		2 modules	
1 Pallet		22 cartons (44 modules)	
Container Loading Capacity	20(ft)	264 modules (6 pallets)	
	40(ft)	572 modules (13 pallets)	

\* xxx suffix indicates Rated Power [W]

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