# **FVG 72-156 POLYCRYSTALLINE 6"**



## Silicon-wafer Polycrystalline photovoltaic module with power peak from 270 W to 285 W

## **APPLICATIONS**



Residential, commercial and agricultural



24V stand-alone systems (or multiples)



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 to14.68%



Custom-made modules even in "All Black" version



Positive tolerance on power peak of individual module

















#### **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





#### **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					
FVG 72-156	FVG xxxP-MC*	270	275	280	285
Module Efficiency	ŋm (%)	13.90	14.17	14.43	14.68
Cell Efficiency	ŋc (%)	15.45	15.80	16.15	16.50
Power Peak	Pm (W)	270	275	280	285
Maximum Power Voltage	Vm (V)	36.00	36.30	36.40	36.50
Maximum Power Current	Im (A)	7.50	7.60	7.70	7.85
Open Circuit Voltage	Voc (V)	44.60	44.70	44.80	45.00
Short Circuit Current	Isc (A)	8.18	8.25	8.33	8.39
Maximum System Voltage	(VDC)	1,000			
Power Output Tolerance	(W)	0/+5			
Max-Series Fuse	(A)	20			
Operating/Storage Temp.	(°C)	- 40 ~ + 85			
Dielectric Insulation Voltage	(VDC)	3,000 max			
Code	MFP	50302	50303	50304	50305
STC: Irradiance 1,000 W/m², module temperature 25 °C, AM=1.5					

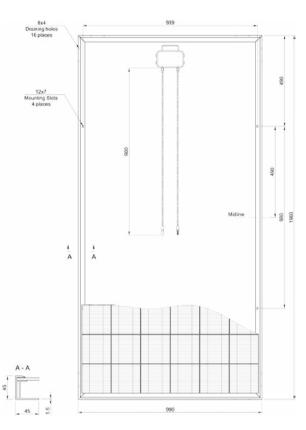
STC: Irradiance 1,000 W/m², module temperature 25 °C, AM=1.5
Power measurement tolerance: ± 3%

					NOCT
Typical Power at NOCT	Pm (W)	196	200	204	208
Maximum Power Voltage	Vm (V)	31.70	31.90	32.00	32.10
Maximum Power Current	lm (A)	6.19	6.30	6.39	6.48
Open Circuit Voltage	Voc (V)	40.50	40.60	40.80	41.00
Short Circuit Current	lsc (A)	6.65	6.69	6.74	6.79

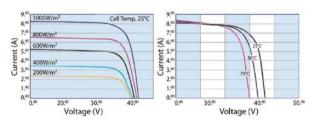
NOCT: Irradiance 800  $\text{W/m}^2$ , ambient temperature 20 °C, wind speed 1 m/s Power measurement tolerance: ± 3%

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	72 cells - polycrystalline silicon			
Module Dimensions	(mm)	1,960 x 990 x 45		
Module Weight	(kg)	27		
Front Glass	4 mm tempered glass			
Frame	anodized aluminium alloy			
Junction box	6 by-pass diodes			
Connectors	IP67 type MC3 or MC4			
Output Cables	(mm) 900			



## **CURVE CURRENT - VOLTAGE**



PACKING FEATURES				
Carton Dimensions	(mm) 2,020 x 1,030 x h105			
Pallet Dimensions	(mm)	2,050 x 1,050 x h2,150		
Pallet Weight	(kg)	1,180		
1 Carton	2 modules			
1 Pallet		19 cartons (38 modules)		
Container Loading Capacity	20(ft)	190 modules (5 pallets)		
	40(ft)	418 modules (11 pallets)		

\* xxx suffix indicates Rated Power [W]