

FVG 36-156

POLYCRYSTALLINE 6"



Silicon-wafer Polycrystalline photovoltaic module with power peak 130 W

APPLICATIONS



12V stand-alone systems
(or multiples)

The FVG 36-156 modules are ideal for stand-alone systems, public and private lighting, survey and data transmission systems, road signs, telecommunication and other specific applications

FEATURES



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



3.2 mm solar-grade tempered prismatic glass



Heavy load mechanical resistance



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



A-grade solar cells



Custom-made modules even in "All Black" version



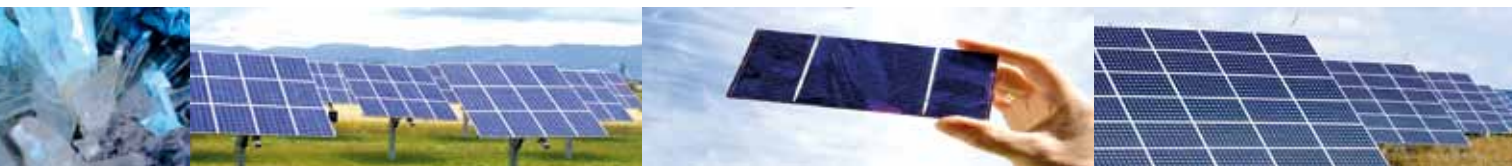
ITALIAN WARRANTY

Standard 3 years warranty on materials and manufacturing defects



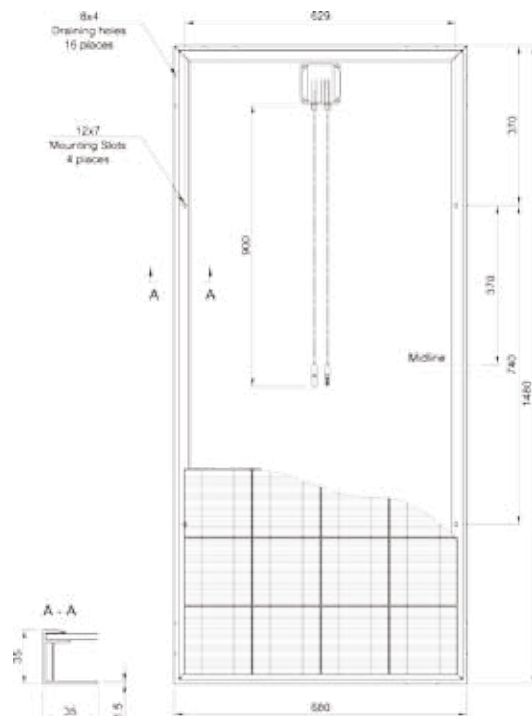
JUNCTION BOX

Strong and reliable with 2 by-pass diodes. High performance IP67 connectors guarantee maximum safety and duration over time to maximise the power generated by the modules.



ELECTRICAL FEATURES

ELECTRICAL FEATURES		
STC		
Type	Model	xxx Rated Power [W]
FVG 36-156	FVG xxxP-MC*	130
Module Efficiency	η_m (%)	12.90
Cell Efficiency	η_c (%)	14.80
Power Peak	P_m (W)	130
Maximum Power Voltage	V_m (V)	17.50
Maximum Power Current	I_m (A)	7.43
Open Circuit Voltage	V_{oc} (V)	21.50
Short Circuit Current	I_{sc} (A)	8.25
Maximum System Voltage	(VDC)	600
Power Output Tolerance	(%)	- 3 / + 3
Max-Series Fuse	(A)	10
Operating/Storage Temp.	(°C)	- 40 ~ + 85
Dielectric Insulation Voltage	(VDC)	1800 max
Code	MFP	50173
STC: Irradiance 1000 W/m ² , module temperature 25 °C, AM=1.5		
Power measurement tolerance: ± 3%		



NOCT

NOCT		
Type	Model	xxx Rated Power [W]
Typical Power at NOCT	P_m (W)	98
Maximum Power Voltage	V_m (V)	15.95
Maximum Power Current	I_m (A)	6.15
Open Circuit Voltage	V_{oc} (V)	19.56
Short Circuit Current	I_{sc} (A)	6.68
NOCT: Irradiance 800 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
P_m Temperature Coefficient	(%/°C)	- 0.44
V_{oc} Temperature Coefficient	(%/°C)	- 0.33
I_{sc} Temperature Coefficient	(%/°C)	0.055

MECHANICAL FEATURES

Cell Size	(mm)	156 x 156
Number of cells		36 cells - polycrystalline silicon
Module Dimensions	(mm)	1480 x 680 x 35
Module Weight	(kg)	12.50
Front Glass		3.2 mm tempered glass
Frame		anodized aluminium alloy
Junction box		2 by-pass diodes
Connectors		IP67 type MC3 or MC4
Output Cables	(mm)	900

PACKING FEATURES

Carton Dimensions	(mm)	1520 x 720 x h85
Pallet Dimensions	(mm)	1700 x 1100 x h2150
Pallet Weight	(kg)	918
1 Carton		2 modules
1 Pallet		34 cartons (68 modules)
Container Loading Capacity	20(ft)	408 modules (6 pallets)
	40(ft)	884 modules (13 pallets)

* xxx suffix indicates Rated Power [W]