

FVG 60-156E POLYCRYSTALLINE 6"



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

APPLICATIONS



Residential, industrial, commercial and agricultural



PV parks

FEATURES



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



3.2 mm solar-grade tempered glass



Heavy load mechanical resistance 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 14.53%



EUROPEAN WARRANTY

10 years commercial warranty – 25 years performance warranty

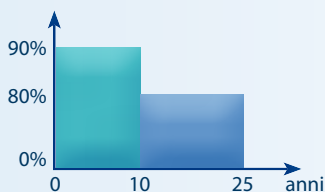
Commercial

- Standard 10 years on materials and manufacturing defects

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 3 by-pass diodes. High performance IP65 TYCO connectors guarantee maximum safety and duration over time to maximise the power generated by the modules.

FVG 60-156E

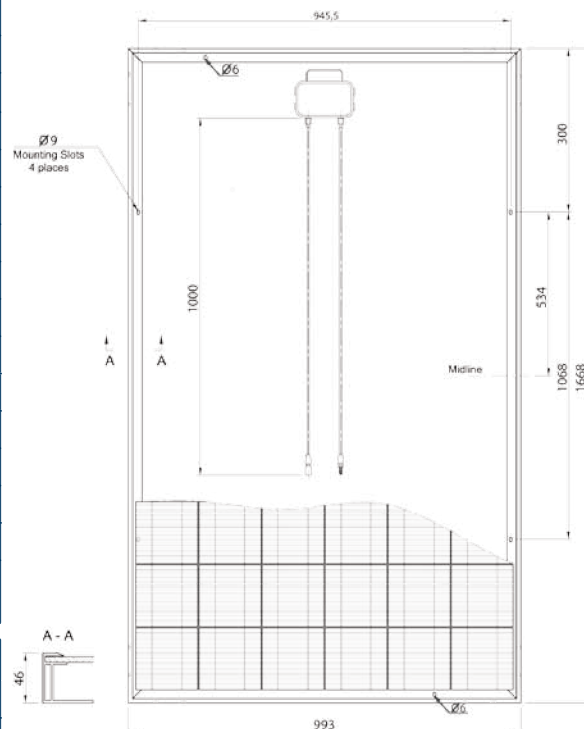
POLYCRYSTALLINE 6"



ELECTRICAL FEATURES

		STC			
Type	Model	xxx Rated Power [W]			
FVG 60-156E	FVGxxxP-TY	225	230	235	240
Module Efficiency	η_m (%)	13.60	13.90	14.20	14.53
Cell Efficiency	η_c (%)	15.45	15.80	16.15	16.50
Power Peak	P_m (W)	225	230	235	240
Maximum Power Voltage	V_m (V)	29.40	29.50	29.60	29.70
Maximum Power Current	I_m (A)	7.70	7.80	7.94	8.02
Open Circuit Voltage	V_{oc} (V)	37.50	37.70	37.84	37.98
Short Circuit Current	I_{sc} (A)	8.25	8.36	8.46	8.48
Maximum System Voltage	(VDC)	1000			
Power Output Tolerance	(%)	+ / - 3			
Max-Series Fuse	(A)	10.4			
Operating/Storage Temp.	(°C)	- 40 ~ + 85			
Dielectric Insulation Voltage	(VDC)	3000 max			
Code	MFP	50235E	50236E	50237E	50238E

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



TEMPERATURE CHARACTERISTICS - STC

NOCT - Nominal Operating Cell Temperature	(°C)	44 ± 2
P_m Temperature Coefficient	(%/C°)	- 0.44
V_{oc} Temperature Coefficient	(%/C°)	- 0.37
I_{sc} Temperature Coefficient	(%/C°)	0.048

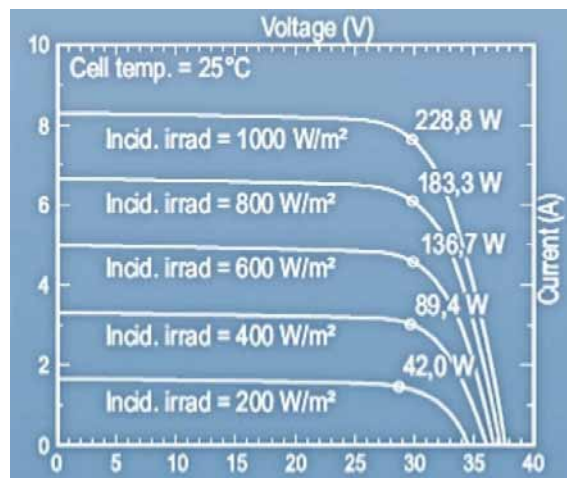
MECHANICAL FEATURES

Cell Size	(mm)	156 x 156
Number of cells		60 cells - polycrystalline silicon
Module Dimensions	(mm)	1668 x 993 x 46
Module Weight	(kg)	20
Front Glass		3.2 mm tempered glass
Frame		anodized aluminum alloy
Junction box		3 by-pass diodes
Connectors		IP65 TYCO
Output Cables	(mm)	1000

PACKING FEATURES

Pallet Dimensions	(mm)	1755 x 1080 x h1160
Pallet Weight	(kg)	420
1 Pallet	(pcs)	20 modules
Container truck	(pcs)	30 pallets

CURVE CURRENT - VOLTAGE



* xxx suffix indicates Rated Power [W]