

FVG 54-156I

6" POLYCRYSTALLINE

Silicon-wafer Polycrystalline photovoltaic module with power peak from 210 W to 225 W

APPLICATIONS



Residential, industrial, commercial and agricultural



PV parks



Architectural integration (CSTB pass innovation)

FEATURES



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



Anodized aluminium frame with high resistance TÜV certified



High efficiency level up to 15,17%

15,17%



3,2 mm solar-grade tempered prismatic glass which enables a long life of the module



Positive tolerance on power peak of individual module

0/+5 %



cobat

Production sites meet all GSE requirements to benefit of feed in tariff of Italian Conto Energia:

- ISO9001: 2008 Quality management system
- OHSAS 18001: 2007 Occupational health and safety management system
- ISO 14001: 2004 Environmental Management System
- PV CYCLE
- FACTORY INSPECTION ISSUED BY ICIM S.p.A.

WARRANTY

10 year product warranty on components and manufacturing defects.
Guarantee of the nominal power peak for the subsequent 25 years.

CERTIFICATES

IEC 61215

IEC 61730

Certified heavy load mechanical resistance 2.400 Pa against wind

Certified heavy load mechanical resistance 5.400 Pa against snow and ice



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ELECTRICAL FEATURES

STC

Type	Model	xxx Rated Power [W]			
FVG 54-156I	FVG xxxP-SOL*	210	215	220	225
Module Efficiency	η_m (%)	14,16	14,50	14,83	15,17
Cell Efficiency	η_c (%)	16,60	17,10	17,40	17,80
Power Peak	Pm (W)	210	215	220	225
Maximum Power Voltage	Vm (V)	25,20	25,43	25,65	25,86
Maximum Power Current	Im (A)	8,34	8,46	8,58	8,70
Open Circuit Voltage	Voc (V)	32,67	32,97	33,25	33,53
Short Circuit Current	Isc (A)	9,01	9,14	9,27	9,40
Maximum System Voltage	(VDC)	1000			
Power Output Tolerance	(W)	0 / + 5			
Max-Series Fuse	(A)	20			
Operating/Storage Temp.	(°C)	- 40 ~ + 85			
Dielectric Insulation Voltage	(VDC)	3000			
Code	MFP			504001	

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

NOCT

Typical Power at NOCT	Pm (W)	165	168	172	176
Maximum Power Voltage	Vm (V)	24,92	25,18	25,43	25,67
Maximum Power Current	Im (A)	6,61	6,70	6,80	6,89
Open Circuit Voltage	Voc (V)	30,49	30,79	31,07	31,25
Short Circuit Current	Isc (A)	7,28	7,38	7,49	7,59

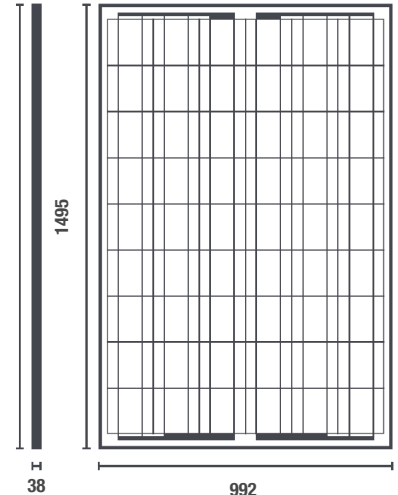
NOCT: Irradiance 800 W/m², ambient temperature 20 °C, wind speed 1 m/s
Power measurement tolerance: ± 3%

TEMPERATURE CHARACTERISTICS - STC

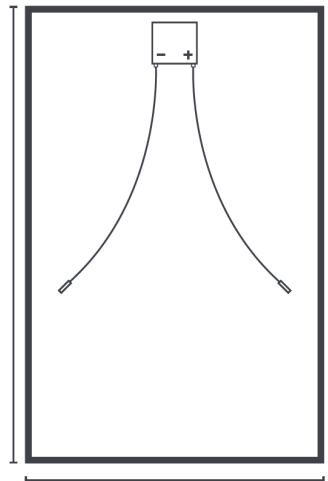
NOCT - Nominal Operating Cell Temperature	(°C)	47 ± 2
Pm Temperature Coefficient	(%/°C)	- 0,44
Voc Temperature Coefficient	(%/°C)	- 0,32
Isc Temperature Coefficient	(%/°C)	0,059

MECHANICAL FEATURES

Cell Size	(mm)	156 x 156
Number of cells		54 cells - polycrystalline silicon
Module Dimensions	(mm)	1495 x 992 x 38
Module Weight	(kg)	18,00
Front Glass		da 3,2 mm tempered glass
Frame		anodized aluminum alloy
Junction box		3 by-pass diodes
Connectors		IP65 MC4
Output Cables	(mm)	1000

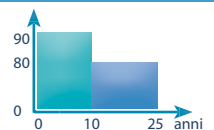


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ITALIAN WARRANTY

10-year commercial warranty
25-year performance warranty



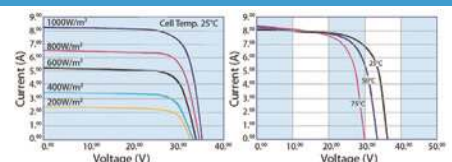
JUNCTION BOX



3 by-pass diodes

IP65 MC4 connectors
1000 mm cable length

CURVE CURRENT - VOLTAGE



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