

FVG 54-156IBI

6" POLYCRYSTALLINE

frameless

LAMINATE PV MODULE FOR A BUILDING INTEGRATION SOLUTION

FVG ENERGY laminate PV modules are highly efficient and reliable with high performance and guarantee a sure return on your investment thanks to the use of the best technologies and components available. Even in environments with diffused cloudiness, localized shading and challenging climatic conditions these panels ensure exceptional performance, simple and safe installations and excellent aesthetic and functional results for every type of residential, agricultural, commercial and industrial installation.

FEATURES



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



Element suitable for innovative building integration



High efficiency level up to 15.35%



3.2 mm solar-grade tempered prismatic glass



Positive tolerance on power peak of every module



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



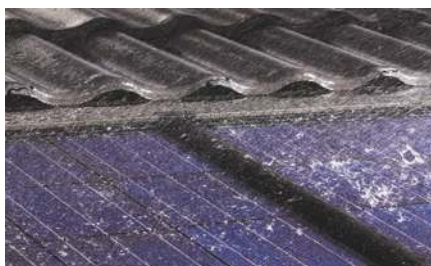
Custom-made modules even in "All Black" version



Strong and reliable junction box with 3 by-pass diodes and IP67 connectors



EXAMPLES OF INSTALLATION



WARNING: Printing errors excepted. Technical and illustrative content of the items in FVG ENERGY catalogue are subject to change without prior notice.

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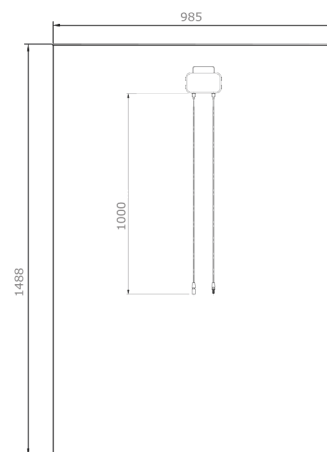
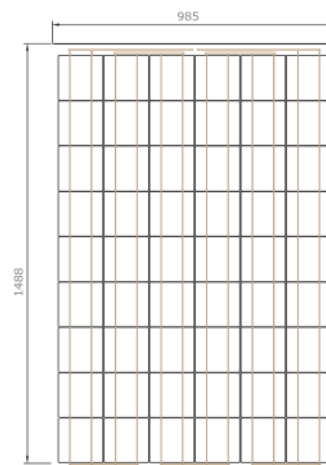
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ELECTRICAL FEATURES

		STC			
Type	Model	xxx Rated Power [W]			
FVG 54-156IBI	FVG xxxP-SOL*	210	215	220	225
Module Efficiency	η_m (%)	14,33	14,67	15,01	15,35
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				

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%

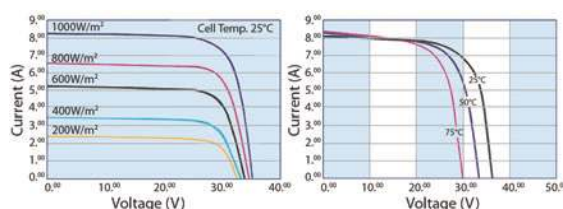
TEMPERATURE CHARACTERISTICS - STC

NOCT - Nominal Operating Cell Temperature	(°C)	45 ± 2
Pm Temperature Coefficient	(%/°C)	- 0,41
Voc Temperature Coefficient	(%/°C)	- 0,33
Isc Temperature Coefficient	(%/°C)	0,010

MECHANICAL FEATURES

Cell Size	(mm)	156 x 156
Number of cells		54 cells - polycrystalline silicon
Module Dimensions	(mm)	1488 x 985 x 30
Module Weight	(kg)	16,00
Front Glass		3,2 mm tempered glass
Frame		anodized aluminium alloy
Junction box		3 by-pass diodes
Connectors		IP65 MC4
Output Cables	(mm)	1000

CURVE CURRENT - VOLTAGE



* xxx suffix indicates Rated Power [W]
- "B" suffix, if added, indicates the version All-Black

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