SilverLine BIPV INTEGRATION

FVG 60-156BI

6" MONOCRYSTALLINE

frameless

FVGENERGY Photovoltaic Solutions

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 15.30%
- 4 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 6 by-pass diodes and IP67 connectors

1000 VDC

IEC 61730-1 61730-2 IEC 61215-2 ISO CE

EXAMPLES OF INSTALLATION

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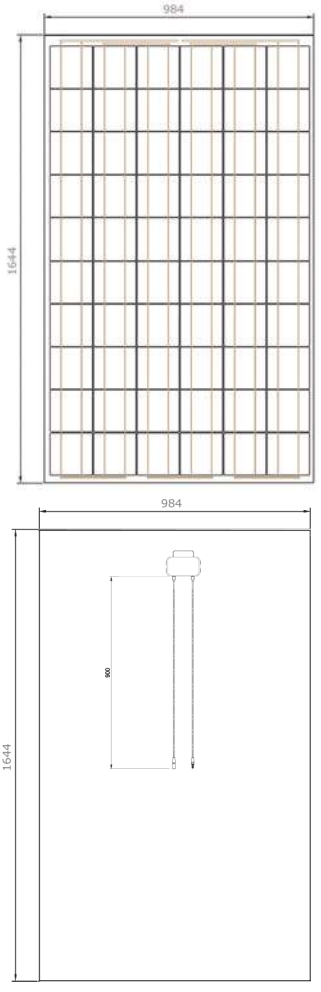
ELECTRICAL FEATURES

		STC			
Type	**Model**	**xxx Rated Power [W]**			
FVG 60-156BI	**FVG xxxM-FL***	**235**	**240**	**245**	**250**
Module Efficiency	ηm (%)	14.39	14.70	15.00	15.30
Cell Efficiency	ηc (%)	16.55	16.90	17.20	17.50
Power Peak	Pm (W)	235	240	245	250
Maximum Power Voltage	Vm (V)	30.30	30.60	30.80	30.95
Maximum Power Current	Im (A)	7.77	7.85	7.97	8.10
Open Circuit Voltage	Voc (V)	37.25	37.50	37.75	37.95
Short Circuit Current	Isc (A)	8.28	8.38	8.48	8.58
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 max			
Code	MFM	50245FL	50246FL	50247FL	50248FL

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

		NOCT			
Typical Power at NOCT	Pm (W)	174	177	180	184
Maximum Power Voltage	Vm (V)	27.52	27.66	27.90	28.35
Maximum Power Current	Im (A)	6.35	6.40	6.46	6.50
Open Circuit Voltage	Voc (V)	34.10	34.20	34.30	34.40
Short Circuit Current	Isc (A)	6.78	6.81	6.89	6.95

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

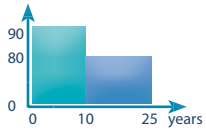


TEMPERATURE CHARACTERISTICS - STC

NOCT - Nominal Operating Cell Temperature	(°C)	45 ± 2
Pm Temperature Coefficient	(%/°C)	- 0.45
Voc Temperature Coefficient	(%/°C)	- 0.34
Isc Temperature Coefficient	(%/°C)	0.05

ITALIAN WARRANTY

10-year commercial warranty
25-year performance warranty



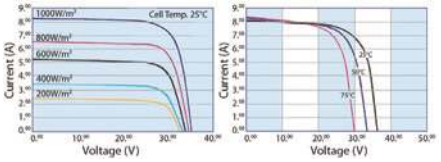
MECHANICAL FEATURES

Cell Size	(mm)	156 x 156
Number of cells		60 cells - monocrystalline silicon
Module Dimensions	(mm)	1644 x 984 x 5-6
Module Weight	(kg)	20,00
Front Glass		4 mm tempered glass
Junction box		6 by-pass diodes
Connectors		IP65 type MC4
Output Cables	(mm)	900

JUNCTION BOX

6 by-pass diodes
CIXI REHNE PHOTOVOLTAIC
PV -RH 701
IP67 MC4 connectors
900 mm cable length

CURVE CURRENT - VOLTAGE



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

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