

# ROOF INTEGRATED SOLUTION - SPECIAL COMPONENTS

Solrif®

## RANGE OF MODULES

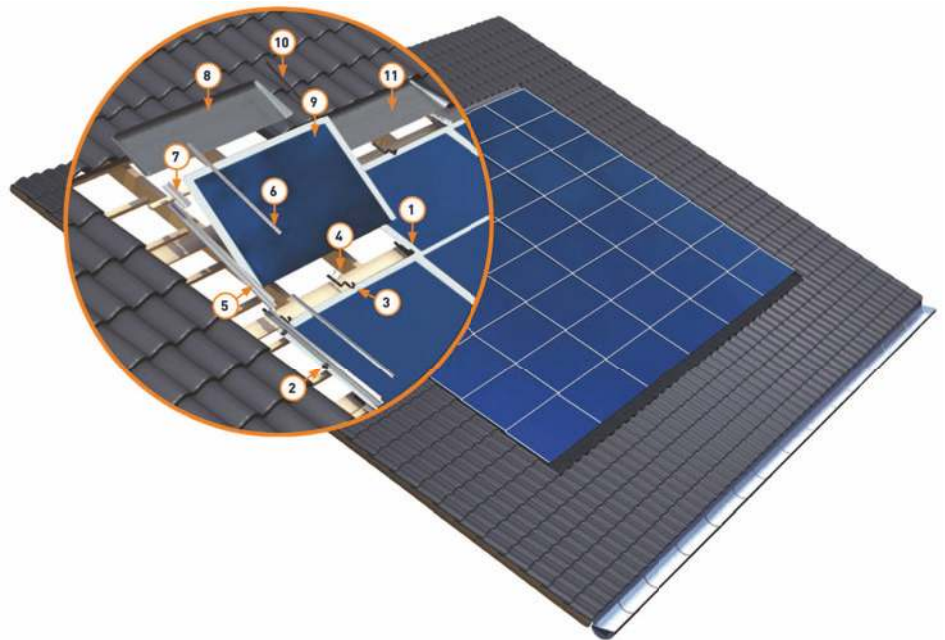
available with Solrif® solution

FVG 60-156BI  
6" POLYCRYSTALLINE

FVG 60-156BI  
6" MONOCRYSTALLINE

FVG 60-156IBI  
6" POLYCRYSTALLINE

FVG 54-156IBI  
6" POLYCRYSTALLINE



### Solrif® elements:

1. Mounting board 100 x 30 mm
2. Sheet grips
3. Mounting clamp
4. Cylinder-head screw (5x35 mm)
5. Flashing, left side
6. Flashing profile, left
7. Side flashing upper left
8. Ridge-side flashing left corner
9. FVG ENERGY PV modules
10. Joint capping piece
11. Flashing ridge middle
12. Eaves-side skirting and sealing tape

### Easy to install



#### HORIZONTAL CROSS-SECTION

Solrif® connections  
between the modules



#### VERTICAL CROSS-SECTION

Roof-integrated modules laid  
according to the same  
principle used for laying  
conventional roof tiles

#### NOTES:

- Minimum roof angle 10° to 60°
- With use of standard connector plates can only be rectangular layout
- Only orientamento to landscape
- Assessment Required static load of the roof structure

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

# FVG 60-156BI

## 6" POLYCRYSTALLINE

### Solrif®

#### ELECTRICAL FEATURES

Type	Model	xxx Rated Power [W]				STC
		230	240	245	250	
<b>FVG 60-156BI</b>	<b>FVG xxxP-SOL*</b>	<b>230</b>	<b>240</b>	<b>245</b>	<b>250</b>	
Module Efficiency	$\eta_m$ (%)	14.08	14.70	14.90	15.10	
Cell Efficiency	$\eta_c$ (%)	15.80	16.50	16.70	16.90	
Power Peak	Pm (W)	230	240	245	250	
Maximum Power Voltage	Vm (V)	30.30	30.50	30.50	30.50	
Maximum Power Current	Im (A)	7.60	7.88	8.05	8.20	
Open Circuit Voltage	Voc (V)	37.20	37.60	37.60	37.60	
Short Circuit Current	Isc (A)	8.14	8.28	8.60	8.80	
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	MFP	50236SOL	50238SOL	50239SOL	50240SOL	

STC: Irradiance 1000 W/m<sup>2</sup>, module temperature 25 °C, AM=1.5  
Power measurement tolerance: ± 3%

#### NOCT

	Pm (W)	169	176	179	182
Typical Power at NOCT	Pm (W)	169	176	179	182
Maximum Power Voltage	Vm (V)	27.20	27.40	27.70	27.90
Maximum Power Current	Im (A)	6.22	6.45	6.53	6.60
Open Circuit Voltage	Voc (V)	34.00	34.40	34.45	34.50
Short Circuit Current	Isc (A)	6.71	6.84	6.98	7.10

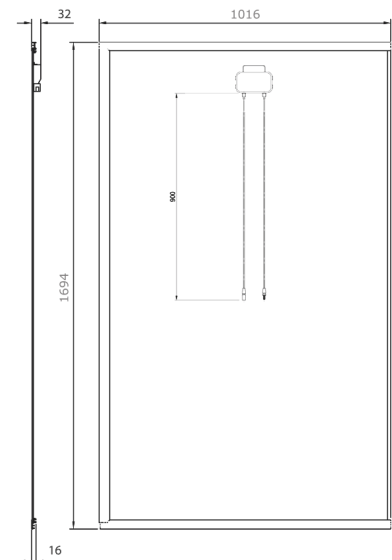
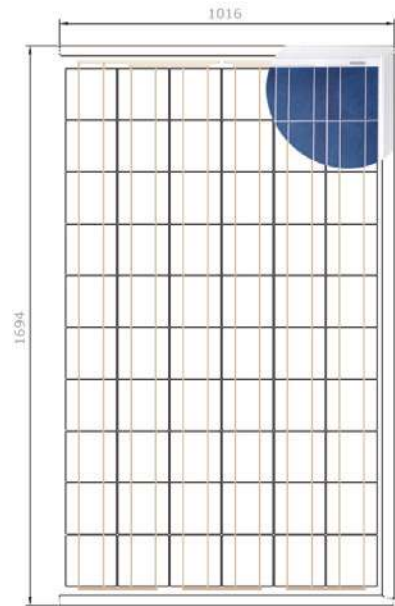
NOCT: Irradiance 800 W/m<sup>2</sup>, ambient temperature 20 °C, wind speed 1 m/s  
Power measurement tolerance: ± 3%

#### TEMPERATURE CHARACTERISTICS - STC

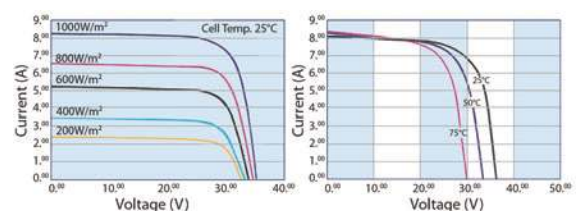
NOCT - Nominal Operating Cell Temperature	(°C)	45 ± 2
Pm Temperature Coefficient	(%/°C)	- 0.44
Voc Temperature Coefficient	(%/°C)	- 0.33
Isc Temperature Coefficient	(%/°C)	0.055

#### MECHANICAL FEATURES

Cell Size	(mm)	156 x 156
Number of cells		60 cells - polycrystalline silicon
Module Dimensions	(mm)	1694 x 1016 x 16-32
Module Weight	(kg)	21,50
Front Glass		4 mm tempered glass
Frame		anodized aluminium alloy
Junction box		6 by-pass diodes
Connectors		IP65 type MC4
Output Cables	(mm)	900



#### CURVE CURRENT - VOLTAGE



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

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