

FVG 60-156

6" MONOCRYSTALLINE

Silicon-wafer Monocrystalline photovoltaic module with power peak from 235 W to 250 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)



4 mm solar-grade tempered prismatic glass



Heavy load mechanical resistance: TÜV 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



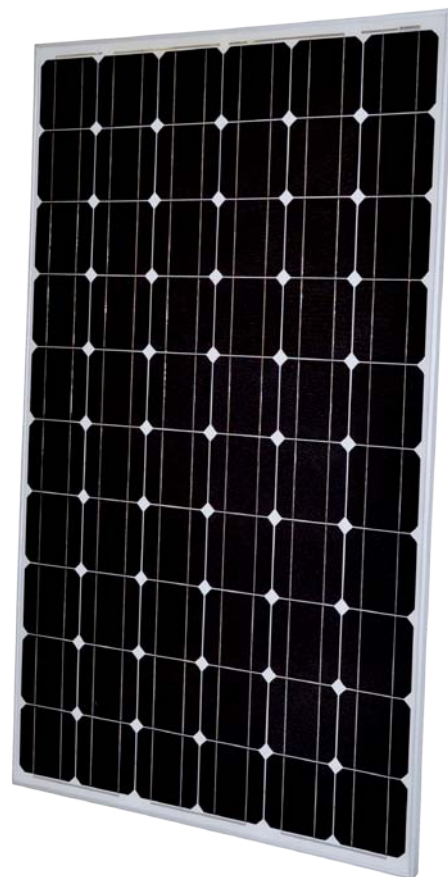
High efficiency level up to 15.30%



Custom-made modules even in "All Black" version



Positive tolerance on power peak of every module



ITALIAN WARRANTY

10 years commercial warranty - 25 years performance warranty

Commercial

- Standard 10 years on materials and manufacturing defects
- Integrative insurance policy on request

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



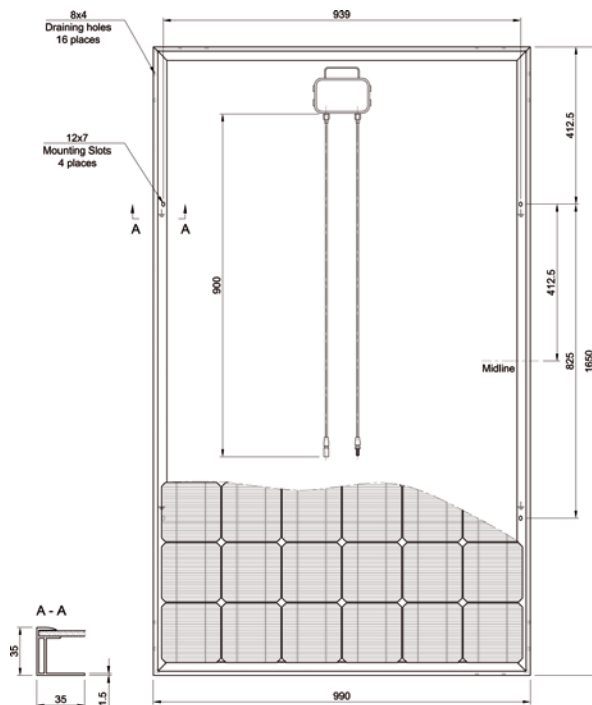
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ELECTRICAL FEATURES

		STC			
Type	Model	xxx Rated Power [W]			
FVG 60-156	FVG xxxM-MC*	235	240	245	250
Module Efficiency	η_m (%)	14.39	14.70	15.00	15.30
Cell Efficiency	η_c (%)	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	50245	50246	50247	50248

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%

JUNCTION BOX

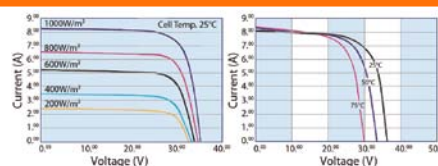


6 diodi di by-pass
CIXI REHNE PHOTOVOLTAIC
PV -RH 701
IP67 MC4 connectors
900 mm cable length

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

CURVE CURRENT - VOLTAGE



MECHANICAL FEATURES

Cell Size	(mm)	156 x 156
Number of cells		60 cells - monocrystalline silicon
Module Dimensions	(mm)	1650 x 990 x 35
Module Weight	(kg)	21.50
Front Glass		4 mm tempered glass
Frame		anodized aluminum alloy
Junction box		6 by-pass diodes
Connectors		IP65 type MC4
Output Cables	(mm)	900

PACKING FEATURES

Carton Dimensions	(mm)	1700 x 1050 x h85
Pallet Dimensions	(mm)	1700 x 1100 x h2000
Pallet Weight	(kg)	1090
1 Carton		2 modules
1 Pallet		22 cartons (44 modules)
Container Loading Capacity 20	(ft)	264 modules (6 pallets)
Container Loading Capacity 40	(ft)	572 modules (13 pallets)

* xxx suffix indicates Rated Power [W]