

FVG 36-125

5" MONOCRYSTALLINE

Silicon-wafer Monocrystalline photovoltaic module with power peak from 85 W to 100 W

APPLICATIONS



Residential, commercial and agricultural



12V stand-alone systems (or multiples)

The FVG 36-125 modules are ideal for stand-alone systems, public and private lighting, survey and data transmission systems, road signs, telecommunication and other specific applications

FEATURES



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



3.2 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 15.60%



Custom-made modules even in "All Black" version



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



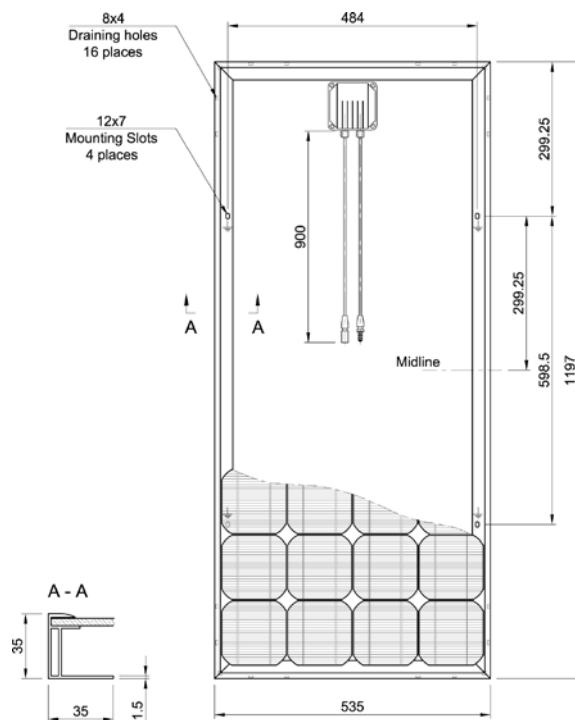
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ELECTRICAL FEATURES

		STC			
Type	Model	xxx Rated Power [W]			
FVG 36-125	FVG xxxM-MC*	85	90	95	100
Module Efficiency	η_m (%)	13.27	14.05	14.83	15.60
Cell Efficiency	η_c (%)	15.90	16.80	17.50	18.00
Power Peak	Pm (W)	85	90	95	100
Maximum Power Voltage	Vm (V)	18.50	18.50	18.65	18.75
Maximum Power Current	Im (A)	4.60	4.88	5.10	5.35
Open Circuit Voltage	Voc (V)	22.20	22.30	22.30	22.35
Short Circuit Current	Isc (A)	5.13	5.37	5.50	5.70
Maximum System Voltage	(VDC)	700			
Power Output Tolerance	(%)	- 3 / + 3			
Max-Series Fuse	(A)	10			
Operating/Storage Temp.	(°C)	- 40 ~ + 85			
Dielectric Insulation Voltage	(VDC)	3000 max			
Code	MFM	50167	50168	50169	50170

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



NOCT

Typical Power at NOCT	Pm (W)	62	66	70	74
Maximum Power Voltage	Vm (V)	16.50	16.55	16.64	16.80
Maximum Power Current	Im (A)	3.80	4.00	4.30	4.40
Open Circuit Voltage	Voc (V)	20.58	20.63	20.70	20.80
Short Circuit Current	Isc (A)	4.52	4.60	4.66	4.75

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

JUNCTION BOX



2 by-pass diodes
CIXI REHNE PHOTOVOLTAIC
PV -RH 06-70
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

MECHANICAL FEATURES

Cell Size	(mm)	125 x 125
Number of cells		36 cells - monocrystalline silicon
Module Dimensions	(mm)	1197 x 535 x 35
Module Weight	(kg)	9.2
Front Glass		3.2 mm tempered glass
Frame		anodized aluminum alloy
Junction box		2 by-pass diodes
Connectors		IP65 type MC4
Output Cables	(mm)	900

PACKING FEATURES

Carton Dimensions	(mm)	1215 x 570 x h175
Pallet Dimensions (small)	(mm)	1200 x 800 x h1900
Pallet Weight (large)	(mm)	1650 x 1100 x h2100
Peso pallet	(kg)	400 (large 950)
1 Carton		4 modules
1 Euro Pallet		10 cartons (40 modules)
1 Large Pallet		25 cartons (100 modules)
Container Loading Capacity 20	(ft)	600 modules (6 pallets)
Container Loading Capacity 40	(ft)	1400 modules (14 pallets)

*xxx suffix indicates Rated Power [W]