

FVG 72-156

6" POLYCRYSTALLINE

Silicon-wafer Polycrystalline photovoltaic module with power peak from 280 W to 300 W

APPLICATIONS



Residential, industrial, commercial and agricultural



24V stand-alone systems (or multiples)



PV parks

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 15.40%



Custom-made modules even in "All Black" version



Positive tolerance on power peak of individual 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



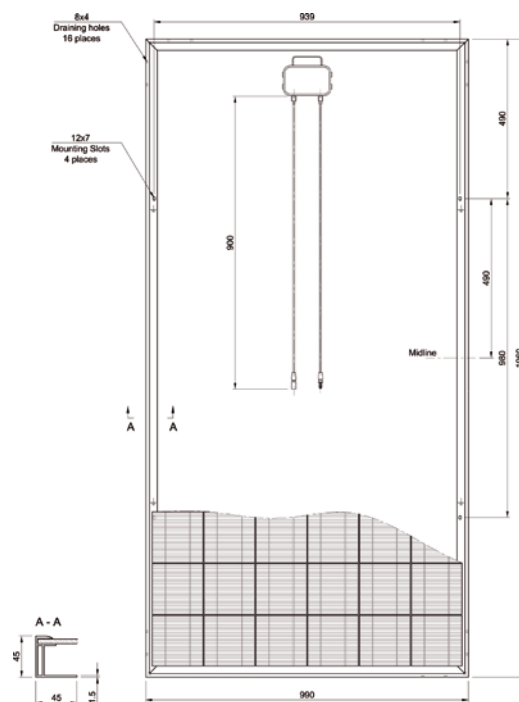
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6" POLYCRYSTALLINE

ELECTRICAL FEATURES

		STC			
Type	Model	xxx Rated Power [W]			
FVG 72-156	FVG xxxP-MC*	280	285	295	300
Module Efficiency	η_m (%)	14.43	14.68	15.20	15.40
Cell Efficiency	η_c (%)	16.15	16.50	17.20	17.55
Power Peak	Pm (W)	280	285	295	300
Maximum Power Voltage	Vm (V)	36.40	36.50	36.60	36.60
Maximum Power Current	Im (A)	7.70	7.85	8.05	8.20
Open Circuit Voltage	Voc (V)	44.80	45.00	45.10	45.10
Short Circuit Current	Isc (A)	8.33	8.39	8.45	8.49
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	50304	50305	50306	50307

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



NOCT

Typical Power at NOCT	Pm (W)	204	208	216	220
Maximum Power Voltage	Vm (V)	32.00	32.10	32.20	32.20
Maximum Power Current	Im (A)	6.39	6.48	6.75	6.85
Open Circuit Voltage	Voc (V)	40.80	41.00	41.10	41.10
Short Circuit Current	Isc (A)	6.74	6.79	6.88	6.93

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

JUNCTION BOX

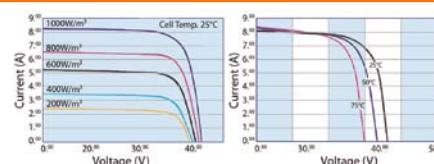


6 by-pass diodes
CIXI REHNE PHOTOVOLTAIC
PV -RH 701
IP67 MC4 connectors
900 mm cable length

TEMPERATURE CHARACTERISTICS STC

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

CURVE CURRENT - VOLTAGE



MECHANICAL FEATURES

Cell Size	(mm)	156 x 156
Number of cells		72 cells - polycrystalline silicon
Module Dimensions	(mm)	1960 x 990 x 45
Module Weight	(kg)	27
Front Glass		4 mm tempered glass
Frame		anodized aluminium alloy
Junction box		6 by-pass diodes
Connectors		IP67 type MC4
Output Cables	(mm)	900

PACKING FEATURES

Carton Dimensions	(mm)	2020 x 1030 x h105
Pallet Dimensions	(mm)	2050 x 1050 x h2150
Pallet Weight	(kg)	1180
1 Carton		2 modules
1 Pallet		19 cartons (38 modules)
Container Loading Capacity 20	(ft)	190 modules (5 pallets)
Container Loading Capacity 40	(ft)	418 modules (11 pallets)

* xxx suffix indicates Rated Power [W]