FVG 72-156Z
POLYCRYSTALLINE 6”

GreenLine
VALUE FOR MONEY

Silicon-wafer Polycrystalline photovoltaic module with power peak from 275 W to 290 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)
- 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 to14.95%
- Custom-made modules even in ”All Black” version

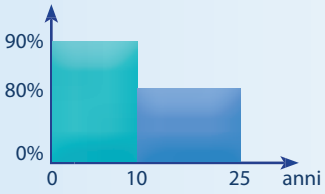
TÜV 1000 VDC IEC IEC ISO CE

ITALIAN WARRANTY

10 years commercial warranty – 25 years performance warranty

Commercial
- 10 years on materials and manufacturing defects
- with specific additional insurance cover by “Chubb Group of Insurance Companies“

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



JUNCTION BOX

Strong and reliable with 6 by-pass diodes.
High performance IP65 connectors guarantee maximum safety and duration over time to maximise the power generated by the modules.

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FVGENERGY
italian style

ELECTRICAL FEATURES

		STC			
Type	**Model**	**xxx Rated Power [W]**			
FVG 72-156Z	**FVG-xxxP6-72A***	**275**	**280**	**285**	**290**
Module Efficiency	ηm (%)	14.17	14.43	14.69	14.95
Cell Efficiency	ηc (%)	15.90	16.20	16.60	16.90
Power Peak	Pm (W)	275	280	285	290
Maximum Power Voltage	Vm (V)	36.00	36.00	36.40	36.60
Maximum Power Current	Im (A)	7.64	7.78	7.83	7.93
Open Circuit Voltage	Voc (V)	44.50	44.80	45.00	45.50
Short Circuit Current	Isc (A)	8.24	8.26	8.38	8.40
Maximum System Voltage	(VDC)	1000			
Power Output Tolerance	(%)	- 1 / + 3			
Max-Series Fuse	(A)	20			
Operating/Storage Temp.	(°C)	- 40 ~ + 85			
Dielectric Insulation Voltage	(VDC)	3000 max			
Code	MFP	50303Z	50304Z	50305Z	50306Z

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

		NOCT			
Typical Power at NOCT	Pm (W)	196	200	204	208
Maximum Power Voltage	Vm (V)	31.70	31.90	32.00	32.10
Maximum Power Current	Im (A)	6.19	6.30	6.39	6.48
Open Circuit Voltage	Voc (V)	40.50	40.60	40.80	41.00
Short Circuit Current	Isc (A)	6.65	6.69	6.74	6.79

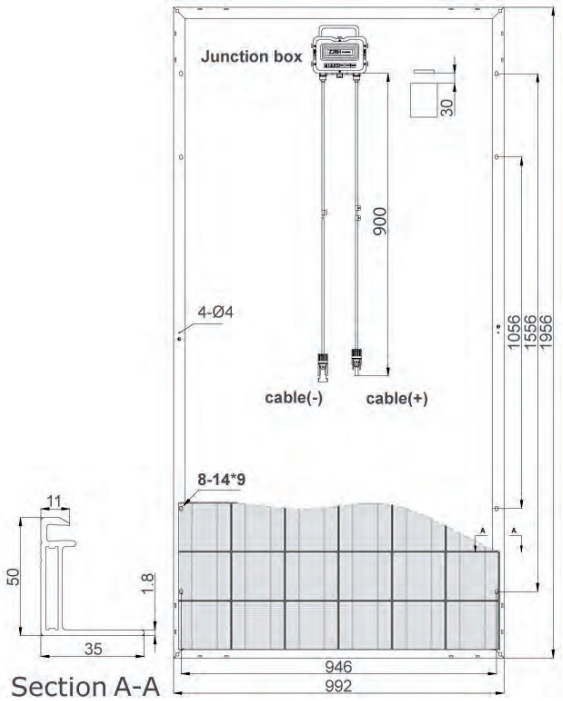
NOCT: Irradiance 800 W/m², ambient temperature 20 °C, wind speed 1 m/s
Power measurement tolerance: ± 3%

TEMPERATURE CHARACTERISTICS - STC

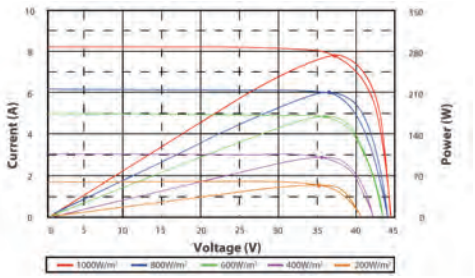
NOCT - Nominal Operating Cell Temperature	(°C)	45 ± 2
Pm Temperature Coefficient	(%/°C)	- 0.47
Voc Temperature Coefficient	(%/°C)	- 0.351
Isc Temperature Coefficient	(%/°C)	0.035

MECHANICAL FEATURES

Cell Size	(mm)	156 x 156 (6 inch)
Number of cells		72 cells - polycrystalline silicon
Module Dimensions	(mm)	1956 x 992 x 50
Module Weight	(kg)	23
Front Glass		3.2 mm tempered glass
Frame		anodized aluminium alloy
Junction box		6 by-pass diodes
Connectors		IP65 type MC4
Output Cables	(mm)	900



CURVE CURRENT - VOLTAGE



PACKING FEATURES

Carton Dimensions	(mm)	2020 x 1030 x h115
Pallet Dimensions	(mm)	2020 x 1050 x h2220
Pallet Weight	(kg)	910
1 Carton		2 modules
1 Pallet		18 cartons (36 modules)
Container Loading Capacity	20(ft)	180 modules (5 pallets)
	40(ft)	396 modules (11 pallets)

* xxx suffix indicates Rated Power [W]

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