

FVG 36-156

6" POLYCRYSTALLINE

Silicon-wafer Polycrystalline photovoltaic module with power peak 130 W to 150 W

APPLICATIONS



12V stand-alone systems
(or multiples)

The FVG 36-156 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



Strict and continuous
quality controls during all
the production phases up
to shipment



A-grade solar cells



Custom-made modules
even in "All Black" version



ITALIAN WARRANTY

Standard 3 years warranty on materials and manufacturing defects

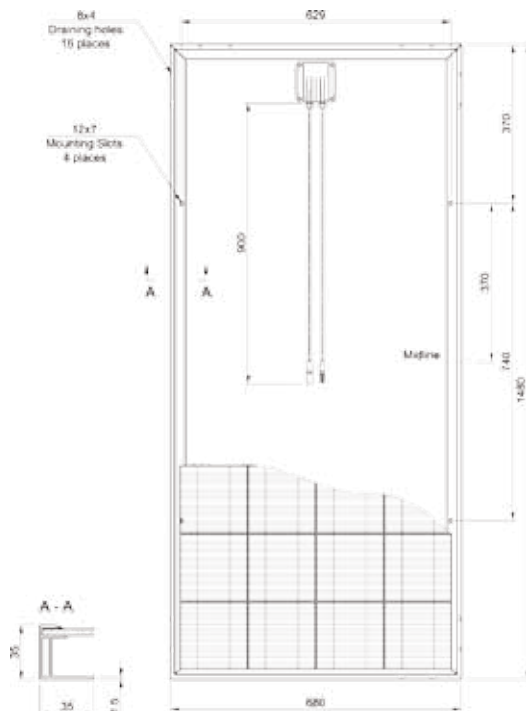
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6" POLYCRYSTALLINE

ELECTRICAL FEATURES

		STC		
Type	Model	xxx Rated Power [W]		
FVG 36-156	FVG xxxP-MC*	130	140	150
Module Efficiency	η_m (%)	12.90	13.90	14.90
Cell Efficiency	η_c (%)	14.80	16.00	16.80
Power Peak	Pm (W)	130	140	150
Maximum Power Voltage	Vm (V)	17.50	17.58	17.60
Maximum Power Current	Im (A)	7.43	8.00	8.43
Open Circuit Voltage	Voc (V)	21.50	21.70	21.90
Short Circuit Current	Isc (A)	8.25	8.83	8.89
Maximum System Voltage	(VDC)	600		
Power Output Tolerance	(%)	- 3 / + 3		
Max-Series Fuse	(A)	10	11	11
Operating/Storage Temp.	(°C)	- 40 ~ + 85		
Dielectric Insulation Voltage	(VDC)	1800 max		
Code	MFP	50173	50174	50175

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



NOCT

Typical Power at NOCT	Pm (W)	98	106	116
Maximum Power Voltage	Vm (V)	15.95	16.25	16.50
Maximum Power Current	Im (A)	6.15	6.55	7.05
Open Circuit Voltage	Voc (V)	19.56	19.81	20.03
Short Circuit Current	Isc (A)	6.68	6.80	6.95

NOCT: irraggiamento 800 W/m², temperatura ambiente 20 °C, velocità del vento 1 m/s
Tolleranza sulle apparecchiature di misura elettrica: ± 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)	- 0.44
Voc Temperature Coefficient	(%/°C)	- 0.33
Isc Temperature Coefficient	(%/°C)	0.055

MECHANICAL FEATURES

Cell Size	(mm)	156 x 156
Number of cells		36 cells - polycrystalline silicon
Module Dimensions	(mm)	1480 x 680 x 35
Module Weight	(kg)	12.50
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)	1520 x 720 x h85
Pallet Dimensions	(mm)	1700 x 1100 x h2150
Pallet Weight	(kg)	918
1 Carton		2 modules
1 Pallet		34 cartons (68 modules)
Container Loading Capacity 20	(ft)	408 modules (6 pallets)
Container Loading Capacity 40	(ft)	884 modules (13 pallets)

* xxx suffix indicates Rated Power [W]