

FVG 36-156

POLYCRYSTALLINE 6"



Silicon-wafer Polycrystalline photovoltaic module with power peak 130 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)



Heavy load mechanical
resistance



A-grade solar cells



3.2 mm solar-grade tempered
prismatic glass



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



Custom-made modules
even in "All Black" version



ITALIAN WARRANTY

Standard 3 years warranty on materials
and manufacturing defects



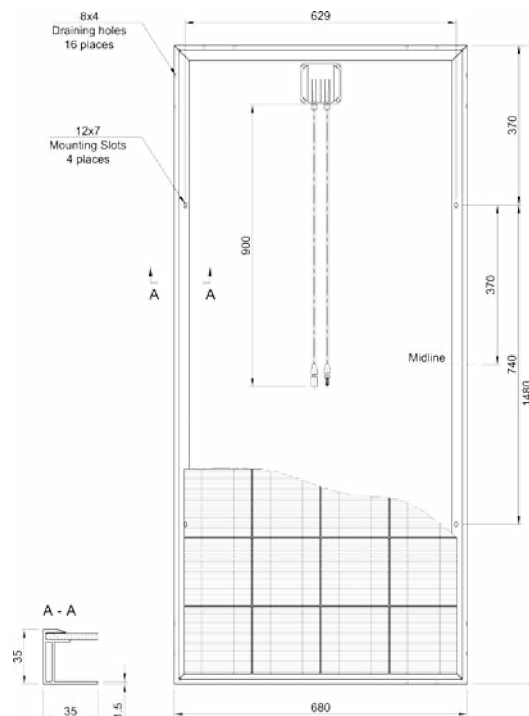
JUNCTION BOX

Strong and reliable with 2 by-pass diodes.
High performance IP67 connectors guarantee maximum
safety and duration over time to maximise the power
generated by the modules.



ELECTRICAL FEATURES

| ELECTRICAL FEATURES | | | STC |
|--|---------------------|---------------------|-----|
| Type | Model | xxx Rated Power [W] | |
| FVG 36-156 | FVG xxxP-MC* | 130 | |
| Module Efficiency | η_m (%) | 12.90 | |
| Cell Efficiency | η_c (%) | 14.80 | |
| Power Peak | P_m (W) | 130 | |
| Maximum Power Voltage | V_m (V) | 17.50 | |
| Maximum Power Current | I_m (A) | 7.43 | |
| Open Circuit Voltage | V_{oc} (V) | 21.50 | |
| Short Circuit Current | I_{sc} (A) | 8.25 | |
| Maximum System Voltage | (VDC) | 600 | |
| Power Output Tolerance | (%) | - 3 / + 3 | |
| Max-Series Fuse | (A) | 10 | |
| Operating/Storage Temp. | (°C) | - 40 ~ + 85 | |
| Dielectric Insulation Voltage | (VDC) | 1,800 max | |
| Code | MFP | 50173 | |
| STC: Irradiance 1,000 W/m ² , module temperature 25 °C, AM=1.5 Power measurement tolerance: ± 3% | | | |



NOCT

| NOCT | | |
|--|--------------|-------|
| Typical Power at NOCT | P_m (W) | 98 |
| Maximum Power Voltage | V_m (V) | 15.95 |
| Maximum Power Current | I_m (A) | 6.15 |
| Open Circuit Voltage | V_{oc} (V) | 19.56 |
| Short Circuit Current | I_{sc} (A) | 6.68 |
| NOCT: Irradiance 800 W/m ² , ambient temperature 20 °C, wind speed 1 m/s Power measurement tolerance: ± 3% | | |

TEMPERATURE CHARACTERISTICS - STC

| | | |
|---|--------|--------|
| NOCT - Nominal Operating Cell Temperature | (°C) | 45 ± 2 |
| P_m Temperature Coefficient | (%/°C) | - 0.44 |
| V_{oc} Temperature Coefficient | (%/°C) | - 0.33 |
| I_{sc} Temperature Coefficient | (%/°C) | 0.055 |

MECHANICAL FEATURES

| | | |
|-------------------|------|------------------------------------|
| Cell Size | (mm) | 156 x 156 |
| Number of cells | | 36 cells - polycrystalline silicon |
| Module Dimensions | (mm) | 1,480 x 680 x 35 |
| Module Weight | (kg) | 12.50 |
| Front Glass | | 3.2 mm tempered glass |
| Frame | | anodized aluminium alloy |
| Junction box | | 2 by-pass diodes |
| Connectors | | IP67 type MC3 or MC4 |
| Output Cables | (mm) | 900 |

PACKING FEATURES

| | | |
|----------------------------|--------|--------------------------|
| Carton Dimensions | (mm) | 1,520 x 720 x h85 |
| Pallet Dimensions | (mm) | 1,700 x 1,100 x h2,150 |
| Pallet Weight | (kg) | 918 |
| 1 Carton | | 2 modules |
| 1 Pallet | | 34 cartons (68 modules) |
| Container Loading Capacity | 20(ft) | 408 modules (6 pallets) |
| | 40(ft) | 884 modules (13 pallets) |

* xxx suffix indicates Rated Power [W]