

# FVG 96-125

## 5" MONOCRYSTALLINE

**Silicon-wafer Monocrystalline photovoltaic module with power peak from 245 W to 260 W**

### APPLICATIONS



Residential, industrial, commercial and agricultural



PV parks



Architectural integration (CSTB pass innovation)

### 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 15.42%



Custom-made modules even in "All Black" version



Positive tolerance on power peak of every 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



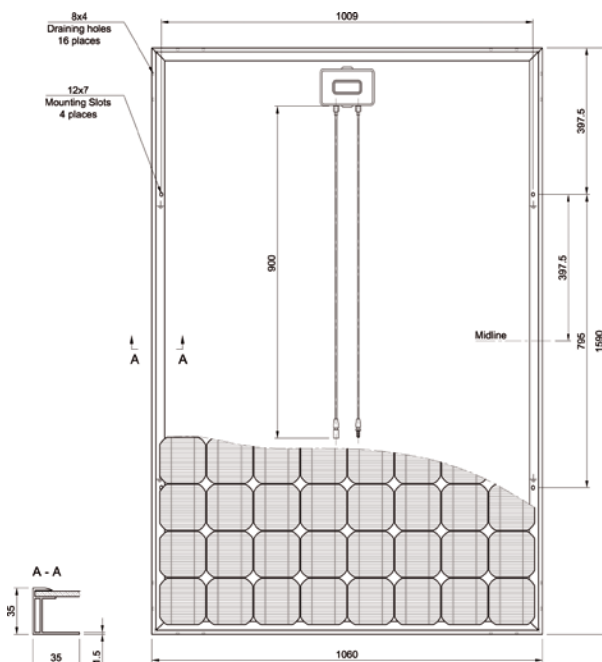
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## 5" MONOCRYSTALLINE

### ELECTRICAL FEATURES

		STC			
Type	Model	xxx Rated Power [W]			
<b>FVG 96-125</b>	<b>FVG xxxM-MC*</b>	<b>245</b>	<b>250</b>	<b>255</b>	<b>260</b>
Module Efficiency	$\eta_m$ (%)	14.53	14.83	15.12	15.42
Cell Efficiency	$\eta_c$ (%)	17.30	17.50	17.80	18.00
Power Peak	Pm (W)	245	250	255	260
Maximum Power Voltage	Vm (V)	49.50	49.80	49.90	50.00
Maximum Power Current	Im (A)	4.98	5.10	5.15	5.25
Open Circuit Voltage	Voc (V)	59.40	59.55	59.60	59.75
Short Circuit Current	Isc (A)	5.40	5.50	5.60	5.70
Maximum System Voltage	(VDC)	1000			
Power Output Tolerance	(W)	0 / + 5			
Max-Series Fuse	(A)	10			
Operating/Storage Temp.	(°C)	- 40 ~ + 85			
Dielectric Insulation Voltage	(VDC)	3000 max			
Code	MFM	50273	50274	50275	50276

STC: Irradiance 1000 W/m<sup>2</sup>, module temperature 25 °C, AM=1.5  
Power measurement tolerance: ± 3%



### NOCT

Typical Power at NOCT	Pm (W)	180	184	188	192
Maximum Power Voltage	Vm (V)	44.90	45.00	45.10	45.20
Maximum Power Current	Im (A)	4.03	4.10	4.17	4.25
Open Circuit Voltage	Voc (V)	54.45	54.50	54.55	55.00
Short Circuit Current	Isc (A)	4.36	4.46	4.56	4.62

NOCT: Irradiance 800 W/m<sup>2</sup>, ambient temperature 20 °C, wind speed 1 m/s  
Power measurement tolerance: ± 3%

### JUNCTION BOX

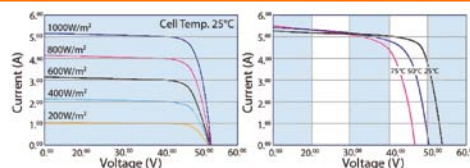


4 by-pass diodes  
CIXI REHNE PHOTOVOLTAIC  
PV -RH 0502B  
IP67 MC4 connectors  
900 mm cable length

### 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

### CURVE CURRENT - VOLTAGE



### MECHANICAL FEATURES

Cell Size	(mm)	125 x 125
Number of cells		96 cells - monocrystalline silicon
Module Dimensions	(mm)	1590 x 1060 x 35
Module Weight	(kg)	23
Front Glass		4 mm tempered glass
Frame		anodized aluminum alloy
Junction box		4 by-pass diodes
Connectors		IP65 type MC4
Output Cables	(mm)	900

### PACKING FEATURES

Carton Dimensions	(mm)	1650 x 1100 x h85
Pallet Dimensions	(mm)	1650 x 1100 x h1850
Pallet Weight	(kg)	1020
1 Carton		2 modules
1 Pallet		20 cartons (40 modules)
Container Loading Capacity 20	(ft)	240 modules (6 pallets)
Container Loading Capacity 40	(ft)	560 modules (14 pallets)

\* xxx suffix indicates Rated Power [W]  
suffix B indicates a black sheet of Tedlar