

FVG 60-156E MONOCRISTALLINE 6"

Silicon-wafer Monocrystalline photovoltaic module with power peak from 235 W to 250 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)



Anodized aluminium frame with high resistance TÜV certified



High efficiency level up to 14.95%

14.95%



4 mm solar-grade tempered prismatic glass which enables a long life of the module



Positive tolerance on power peak of individual module

0~+3



cobat

Both 60 mono and polycrystalline 6" cell modules reaching up to 250 W and realized with Swiss - German next generation machinery in order to ensure high quality standards.

Production sites meet all GSE requirements to benefit of feed in tariff of Italian Conto Energia:

- ISO9001: 2008 Quality management system
- OHSAS 18001: 2007 Occupational health and safety management system
- ISO 14001: 2004 Environmental Management System
- PV CYCLE
- FACTORY INSPECTION ISSUED BY ICIM S.p.A.

WARRANTY

12 year product warranty on components and manufacturing defects.
Guarantee of the nominal power peak for the subsequent 25 years.

CERTIFICATES

IEC 61215

IEC 61730

Certified heavy load mechanical resistance 2.400 Pa against wind

Certified heavy load mechanical resistance 5.400 Pa against snow and ice



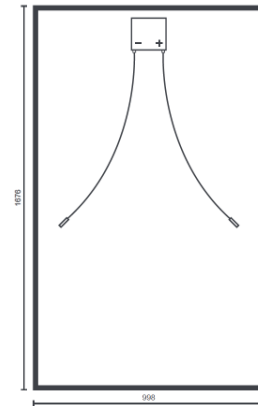
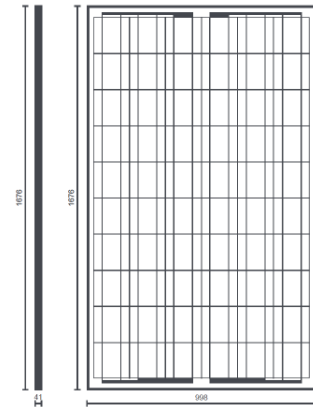
FVG 60-156E

MONOCRISTALLINE 6"

ELECTRICAL FEATURES

		STC			
Type	Model	xxx Rated Power [W]			
FVG 60-156	FVG xxxP-MC*	235	240	245	250
Module Efficiency	η_m (%)	14,08	14,35	14,67	14,95
Cell Efficiency	η_c (%)	16,55	16,90	17,10	17,50
Power Peak	Pm (W)	235	240	245	250
Maximum Power Voltage	Vm (V)	29,73	29,79	29,85	30,12
Maximum Power Current	Im (A)	7,92	8,01	8,21	8,30
Open Circuit Voltage	Voc (V)	37,08	37,56	37,24	37,47
Short Circuit Current	Isc (A)	8,52	8,47	8,76	8,70
Maximum System Voltage	(VDC)	1000			
Power Output Tolerance	(%)	0 / + 3			
Max-Series Fuse	(A)	20			
Operating/Storage Temp.	(°C)	- 40 ~ + 85			
Dielectric Insulation Voltage	(VDC)	3000 max			
Code	MFP	50245EU	50246EU	50247EU	50248EU

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



NOCT

Typical Power at NOCT	Pm (W)	174	177	180	184
Maximum Power Voltage	Vm (V)	27,52	27,66	27,30	28,35
Maximum Power Current	Im (A)	6,35	6,40	6,46	6,50
Open Circuit Voltage	Voc (V)	34,10	34,20	34,30	34,40
Short Circuit Current	Isc (A)	6,78	6,81	6,89	6,95

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

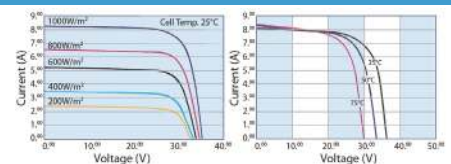
JUNCTION BOX



TEMPERATURE CHARACTERISTICS - STC

NOCT - Nominal Operating Cell Temperature	(°C)	44 ± 2
Pm Temperature Coefficient	(%/°C)	- 0,44
Voc Temperature Coefficient	(%/°C)	- 0,34
Isc Temperature Coefficient	(%/°C)	0,08

CURVE CURRENT - VOLTAGE



MECHANICAL FEATURES

Cell Size	(mm)	156 x 156
Number of cells		60 cells - monocrystalline silicon
Module Dimensions	(mm)	1676 x 998 x 41
Module Weight	(kg)	22
Front Glass		4 mm tempered glass
Frame		anodized aluminum alloy
Junction box		3 by-pass diodes
Connectors		IP65-IEC 60529 tipo MC4
Output Cables	(mm)	1000

PACKING FEATURES

Pallet Dimensions	(mm)	1700 x 1100 x h1150
Pallet Weight	(kg)	570
1 Pallet		25 modules
Container Loading Capacity 20	(ft)	100 modules (4 pallets)
Container Loading Capacity 40	(ft)	500 modules (20 pallets)
Container Loading Capacity 45	(ft)	550 modules (22 pallets)

*xxx suffix indicates Rated Power [W]

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