

# 156M60 B

## PHOTOVOLTAIC MODULES

### MONOCRYSTALLINE - BLACK

eclipse  
ITALIA

#### PROPERTIES

Photovoltaic module manufactured with 60 high efficiency monocrystalline cells for grid-connected or stand-alone plants.

#### WARRANTY

90% rated power output for 10 years  
80% rated power output for 25 years  
10 year product warranty

#### CERTIFICATES

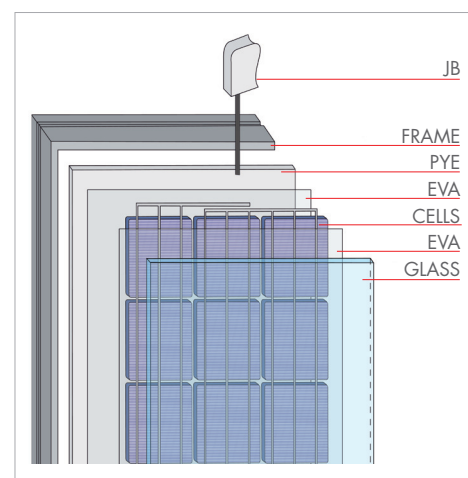
Modules certified according to: IEC 61215 ed.II  
Modules certified according to: IEC 61730-1; IEC 61730-2  
Conformity to the requirements: V CONTO ENERGIA DM 05/07/2012  
ART. 5 COMMA 2 MADE IN EU

#### STRUCTURAL PROPERTIES

Size LxWxH	1640mmx992mm
Weight	19,5 kg
Cells type	60 monocrystalline silicon cells with high efficiency
Ribbon	Bus bars of copper, tin and silver
Front glass	Prismatic tempered glass high light transmittance, 3.2 mm thickness, class U1
Encapsulation	EVA (Ethilene-vinyl acetate), UV stabilised
Backsheet	Multilayer polyester-based - Black
Frame	Alluminium alloy EN AW-6060T6 anodized 15 microns, thickness 35 mm - Black
Junction box	Ip 67 waterproof junction box fitted with 3 bypass diodes for effettive protection against "hot spots"
Connectors	2 cables long 1 mt section 4 mm with Tyco or MC4 connector

#### CONDITION OF USE

Typical application	24 V DC
Maximum voltage	1000 V DC
Operating temperature	-40°C+85°C
Impact resistance to hail	Ø 25 mm at 80 km/h
Wind	197 km/h max
Snow	551 kg/mq max



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#### ELECTRICAL CHARACTERISTICS\*

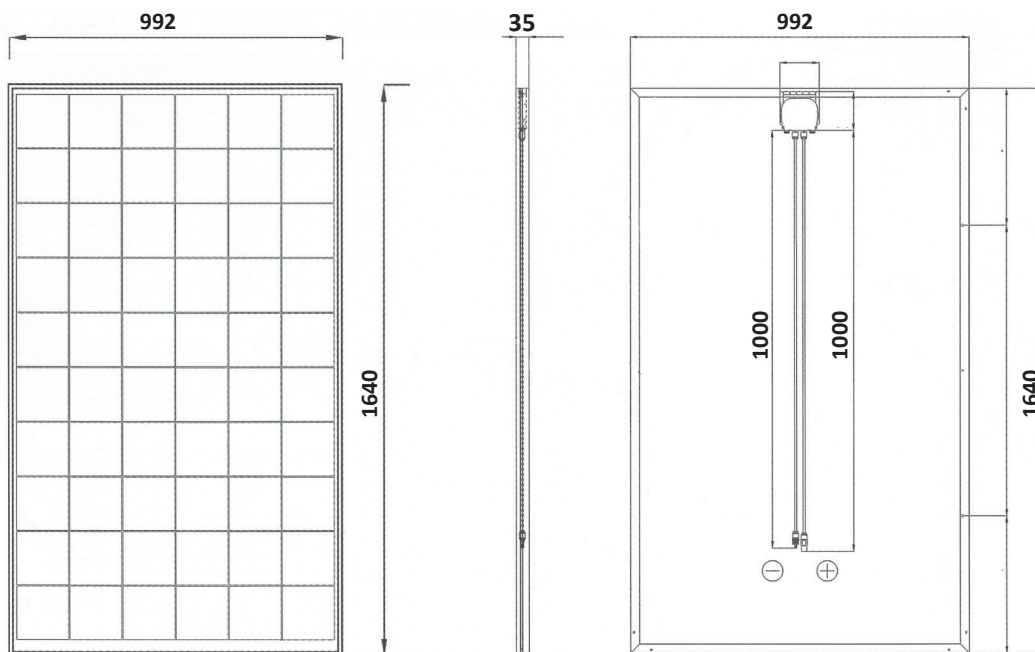
Modules	SOL 300 MB	SOL 305 MB	SOL 310 MB
Module power (P Max)	300 Wp	305 Wp	310 Wp
Power tolerance	0%/+5 W	0%/+5 W	0%/+5 W
Maximum power voltage (Vpm)	32,83V	33,01V	33,09V
Maximum power current (Ipm)	9,14A	9,24A	9,61A
Open circuit current (Voc)	39,98V	40,00V	40,045V
Short circuit current (Isc)	9,89A	9,93A	10,11A
Module efficiency	18,44%	18,75%	19,05%

\*measurement conditions: the electrical specifications are measured under an irradiance level of 1000 W/mq, 1,5 Air mass Spectrum, cell temperature of 25°C.

#### OPERATING CHARACTERISTICS

		U.M.
Voltage temperature coefficient (Voc)	- 0,39%	°C
Power temperature coefficient (Pmp)	- 0,32%	°C
Current temperature coefficient (Isc)	+ 0,05%	°C
NOCT (Nominal Operating Cell Temperature)	45±2	°C

#### TECHNICAL DRAWING



The information shown in the sheet may change without notice as the result of technical updating.

Ufficio Marketing Eclipse - Scheda 156M60 Black\_E1 - (12/20)



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