REFERENCE REGULATIONS

Modules **DG6M60** conform to all standards requested by regulation IEC 61215 ed. 2 "Crystalline Silicon Terrestrial Photovoltaic Modules - Design and Qualification Type Approval" and have been manufactured in accordance with all safety practices adopted by the E.U.

REQUIREMENTS

Modules DG6M60 are produced as below:

60 square photovoltaic cells of multycrystalline silicon 156*156mm Ethylene/Vinyl/Acetate (EVA) transparent encapsulant

Front made of tempered glass with a low iron content of 4 mm thickness and an anti reflective layer

Back sheet in white tedlar film with anty - humidity characteristics Frame in anodised aluminium

IP 65 junction box with 3 by-pass dyodes pre-installed

MECHANICAL DESIGN

The design of module DG6M60 makes it suitable for external long term use / operation.
The cells are connected in series. The terminals are soldered using a chemical compound St, Pb, Ag

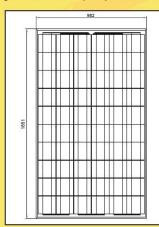
INSULATION:

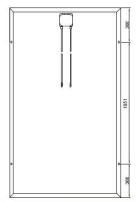
The module when subject to the test of insulation, as described within the International Regulation IEC 61215 does not show any problem of insulation. The module is also certified IEC 61730 (Module Safety Qualification).

MECHANICAL PERFORMANCE

The module is highly resistant if subjected to front side load, torsion or struck.

The positive outcome of the test to determine the gel content, guarantees the complete polimerisation of EVA encapsulant.







IEC 61215 Ed. 2 and IEC 61730 certified Power rating is guaranteed at 90% for 12 years 80% for 25 years

DGEnergy modules have a 10 years warranty against manufacturing and material defects



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DG6M60/230-235-240 Wp

ELECTRICAL PERFORMANCE (@ STC - 1000 W/mq - 25° - 1,5 AM) and MECHANICAL DATA Under Standard Test Condition

| Type of Module | | DG6M60/230 | DG6M60/235 | DG6M60/24 | |
|---|----------------|-------------|-------------|------------|--|
| O DATE OF THE PROPERTY OF THE | | | | | |
| Peak Power | Pmax | 230,00 W | 235,00 W | 240,00 W | |
| Open Circuit Vol | tag Voc | 37,89 V | 38,08 V | 38,50 V | |
| Voltage at Maxii | mum | | | | |
| Power | Vmp | 29,95 V | 30,48 V | 30,97V | |
| Short Circuit Corrent Isc | | 8,1 A | 8,23 A | 8,29 A | |
| Peak Power Current Imp | | 7,68 A | 7,71 A | 7,75 A | |
| Fill Factor | % | 74,94 | 74,98 | 75,20 | |
| Dimensions | mm | 1651*982*45 | 1651*982*45 | 1651*982*4 | |
| Weigth | Kg | 27 | 27 | 27 | |
| Efficiency | % | 14,18 | 14,49 | 14,80 | |

Temperature Coefficients: Isc: 0,05% /K - Voc: -0,34% / K

| ower | 0,43%/°C - NO | JC1: 47 C | | | | | | |
|---|------------------|-----------|------|-------|-------|-------|--|--|
| Variations in to the different irradiation conditions | | | | | | | | |
| | W/m ² | 1000 | 900 | 500 | 300 | 200 | | |
| lsc | % | 0 | -9,7 | -48,9 | -69,7 | -79,2 | | |
| Voc | % | 0 | -0.4 | -2.9 | -53 | -72 | | |

Maximum Power: ± 3% Maximum System Voltage: 1000 V / DC



Specifications and data may change without prior notice due to product development