### REFERENCE REGULATIONS

Modules DG6M48 FL and DG6M54 FL conform to all standards requested by regulation IEC 6125 ed. 2 "Crystalline Silicon Terresrial Photovoltaic Modules - Design and Qualification Type Approval" and have been manufactured in accordance with all safety practices adopted by the E.U.

#### REQUIREMENTS

Modules DG6M48 FL and DG6M54 FL are prodoced below: 48 or 54 square photovoltaic cells of multycrystalline silicon 156\*156mm

Etylene/Vinil/Acetate (EVA) transparent encapsulant Front made of tempered glass with a low iron content of 4mm thickness and an anti reflective layer

Back sheet in white tedlar film with an anty - humidity characteristics

Frame in anodized aluminium

IP65 junction box with 3 by-pass dyodes pre-installed

## MECHANICAL DESIGN

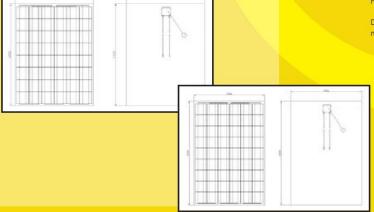
The design of modules DG6M48 FL and DG6M54 FL makes it suitable for external long term us / operation. These modules are suitable for BIPV systems. The cells are connect in series. The terminals are soldered usign a chemical compound St,Pb,Ag

### INSULATION

The module when subject to the test of insulation, as described within the International Regulation IEC 61215 ed. 2 does not show any problem of insulation. The module is also certified IEC 61730 (Module Safety Qualification).

#### MECHANICAL PERFORMANCE

The module is higly resistant if subjected to front side load, torsion or struck. The positive outcome of the test to determine the gel content, guarntees 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



D.G. Energy S.r.L. C.da Gidora Zona Industriale 87040 Luzzi (CS) - ITALIA Tel: +39 (0)984 541918 Fax +39 (0)984 654564 E-mail: info@dgenergy.it Web: www.dgenergy.it

# DG6M48FL/180-185 - DG6M54FL/200-205-210

ELECTRICAL PERFORMANCE (@STC -  $1000\,W/mq$  -  $25^\circ$  -  $1,5\,AM$ ) and MECHANICAL DATA Under Standard Test Conditions:

Type of module		DG6M48FL/180	DG6M48/185	DG6M54FL/200	DG6M54/205	DG6M54FL/210
Peak Power	Pmax	180,00	185	200	205	210
Open circuit voltage	Voc	29,50	29,66	33,04	33,15	33,53
Voltage at maxium						
Power	Vmp	24,24	24,40	27,18	27,43	27,60
Short Circuit Current	Isc	7,97	8,10	7,90	8,03	8,10
Peak Power Current	Imp	7,43	7,60	7,36	7,50	7,62
Fill Factor	%	76,60	77,19	76,64	77,28	77,44
Dimensions	mm	1332*986*5	1332*986*5	1490*986*5	1490*986*5	1490*986*5
Weight	Kg	17	17	19	19	19
Efficiency	%	13,80	14.10	13.70	14.00	14.40

Temperature Coefficients: Isc: 0,05% / °C - Voc: -0,34% / °C Power: -0,43% / °C - NOCT: 47 °C

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



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