

# SPECIFICATIONS

## REFERENCE REGULATIONS

Modules **DG6M54** 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 DG6M54 are produced as below:  
 54 square photovoltaic cells of multicrystalline 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

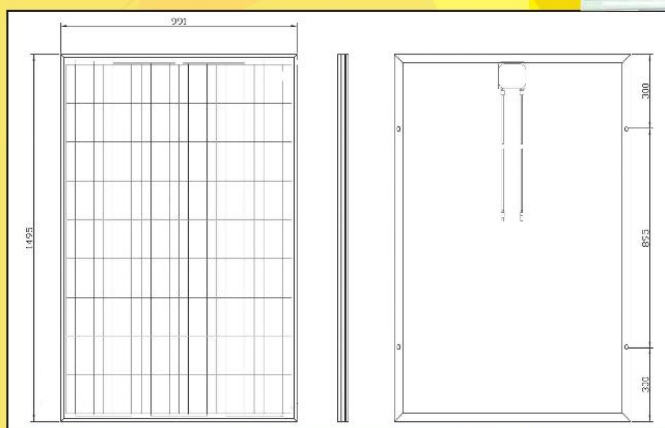
The design of module DG6M54 makes it suitable for external long term use / operation.  
 The cells are connected in series. The terminals are soldered using a chemical compound St, Pb, Ag

## 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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## DG6M54/ 190-195-200-205-210 Wp

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

Type of Module	DG6M54/190	DG6M54/195	DG6M54/200	DG6M54/205	DG6M54/210	Temperature Coefficients:
Peak Power	190,00 W	195,00 W	200,00 W	205,00 W	210,00 W	Isc: 0,05% / °C - Voc: -0,34% / °C
Open Circuit Voltag	32,70 V	32,85 V	33,04 V	33,15 V	33,53 V	Power: -0,43% / °C - NOCT: 47 °C
Voltage at Maximum						
Power	Vmp	26,90 V	26,96 V	27,18 V	27,43 V	27,60 V
Short Circuit Current	Isc	7,68 A	7,79 A	7,90 A	8,03 A	8,10 A
Peak Power Current	Imp	7,11 A	7,24 A	7,36 A	7,50 A	7,62 A
Fill Factor	%	76,16	76,28	76,64	77,28	77,44
Dimensions	mm	1495*991*45	1495*991*45	1495*991*45	1495*991*45	1495*991*45
Weigth	Kg	20	20	20	20	20
Efficiency	%	12,80	13,20	13,50	13,80	14,20

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



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