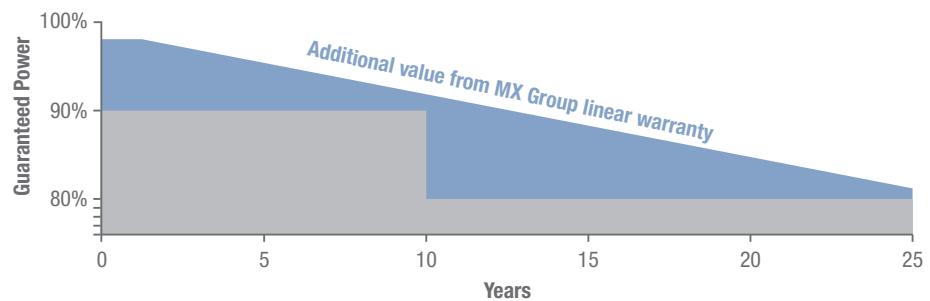
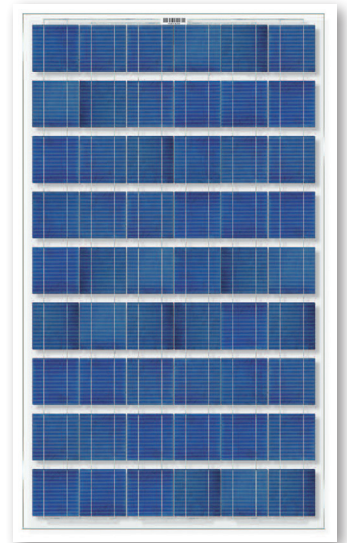


# photovoltaic module **SUNCASE MX54**



- **Cells:** Suncase MX54 module is composed of 54 high-efficiency multicrystalline PV cells, each measuring 156 mm x 156 mm, and connected in series.
- **Glass:** 4 mm thick with a low ferrous oxide content and specially treated surface that reduces reflectivity and optimizes light transmission to the PV cells as well as assuring protection from the elements.
- **Junction box:** the junction box has an IP65 protection level and it is completed with bypass diodes that provides the best guarantee from hot-spot damages. Cables and polarized connectors have an IP67 protection level.



## Certifications

**Suncase MX 54** photovoltaic module is manufactured in compliance with the following international standards:

- IEC 61215:2005 - Ed. 2
- EN 61730-2:2400/ EN 61730-2:2007



MX Group is ISO 9001:2008, ISO 14001:2004 and OHSAS 18001:2007 certified.



# photovoltaic module **SUNCASE MX54**

## Mechanical specifications

Photovoltaic solar cells	Multicrystalline Silicon
Cell dimensions	156 mm x 156 mm (6.14"x6.14")
Cell quantity	54
Layout	6 x 9
Front glass	High-transmittance
Glass thickness	4 mm (0.46")
Cell encapsulation	EVA (Ethylene Vinyl Acetate)
Back protection	PET multilayer
Frame	Extruded anodised aluminium
Junction box	1 box IP65 with 3 bypass diodes
Cables and connectors	Unipolar cable 4 mm <sup>2</sup> MC4/MC3/ TYCO compliant

## Photovoltaic Module **Frameless**

Length	1657 mm (65.24")
Width	997 mm (39.25")
Thickness	5 mm (0.19")
Weight	19,5 Kg (lb. 42.99)

## Electrical specifications

Suncase MX54	200	210
Module Power P <sub>max</sub> , W	200	210
Rated voltage V <sub>mpp</sub> , V	26.0	26.5
Rated current I <sub>mp</sub> , A	7.69	7.91
Open circuit voltage V <sub>oc</sub> , V	32.9	33.1
Short circuit current I <sub>sc</sub> , A	8.24	8.36
Maximum system voltage, V	1000	1000
Module efficiency %	12.1	12.6
Cell efficiency %	15.2	16.0

Power measurements are within -0/+4.99W of the indicated values.  
Any other electrical characteristics is within -/+5% of the indicated values.  
The values refer to Standard Test Conditions (STC): Irradiation 100 W/m<sup>2</sup>; AM 1.5; temperature 25°C (77° F).

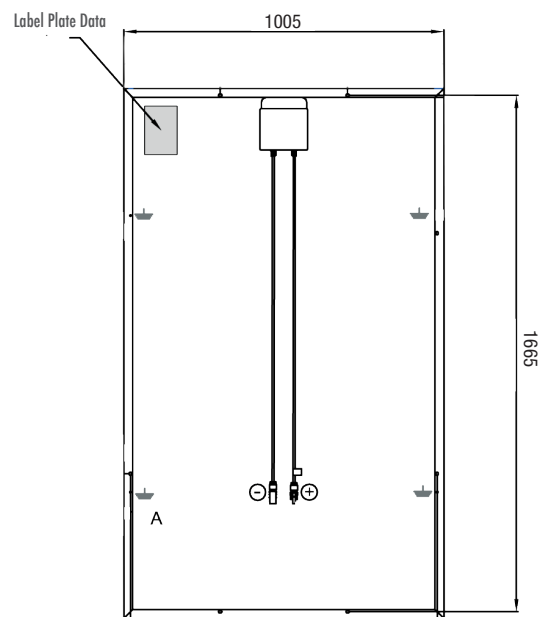
## Information

- Operating temperature range from -40°C to +85°C
- Hail impact: diameter of 28 mm with impact speed of 86 Km/h
- Fire rating Class C. Application Class A – Electrical safety class II
- MX Group guarantees the power of the module to be at least 90% of the initial value up to 10 years and at least 80% up to 25 years.
- **10 years warranty from manufacturing defects**

N.B.: The MX54 module is supplied without a frame: the maximum surface load tolerance and the warranty are therefore only valid if the modules are mounted in compliance with the guidelines provided in the installation manual.

The specifications are subject to change without notice.

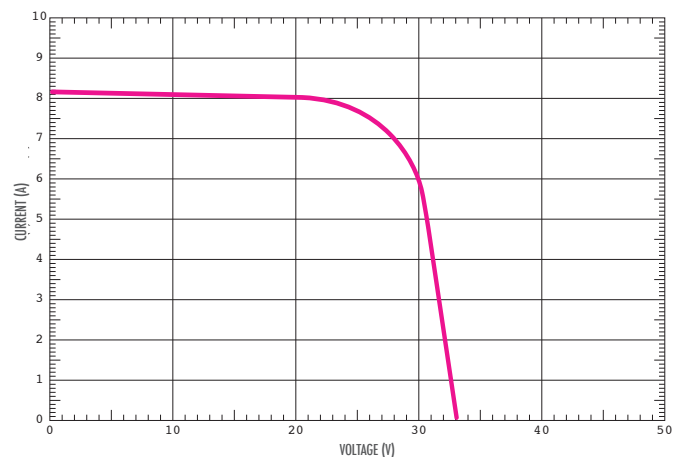
## Back



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## Graphs of Energetic Behaviour

PHOTOVOLTIC MODULE SUNCASE MX54 (performance at different solar radiations)



Temperature coefficient of open circuit voltage -0,124 V/°C (-0,375%/°C)  
 Temperature coefficient of short circuit current 2,39 mA/°C (0,028%/°C)  
 Temperature coefficient of power -0,94 W/°C (-0,46%/°C)  
 NOCT (±3,5°C) 44°C

Ed. June 2012