



Performance Supreme 690



OMNIA[®]
S O L A R
Italian panel generation

2.384 x 1.303 mm



Performance 690

High-efficiency photovoltaic module, bifacial, ideal for civil, commercial, industrial and utility scales.

132 crystalline MONO cells
with "**Half-cell**" configuration
TOPCon technology, with 16-busbar soldering.



40-years product warranty

Power output warranty > **87.40 %** after 30 years

Photovoltaic 100% artfully done.

Let's start with the **warranty: 40 years** on the product

We can give you this warranty only because the modules are artfully made.

- We use only **selected and verified raw materials**;
- We have **automated all phases** of the production process;
- We supervise each processing step with dedicated operators to **technical supervision and visual inspection**;
- A final function **test**, performed on **100% of the panels**, validates the product for distribution.



High performance
reliability even with
environmental
temperature shifts



Higher
power
generation



High
mechanical
stress
resistance



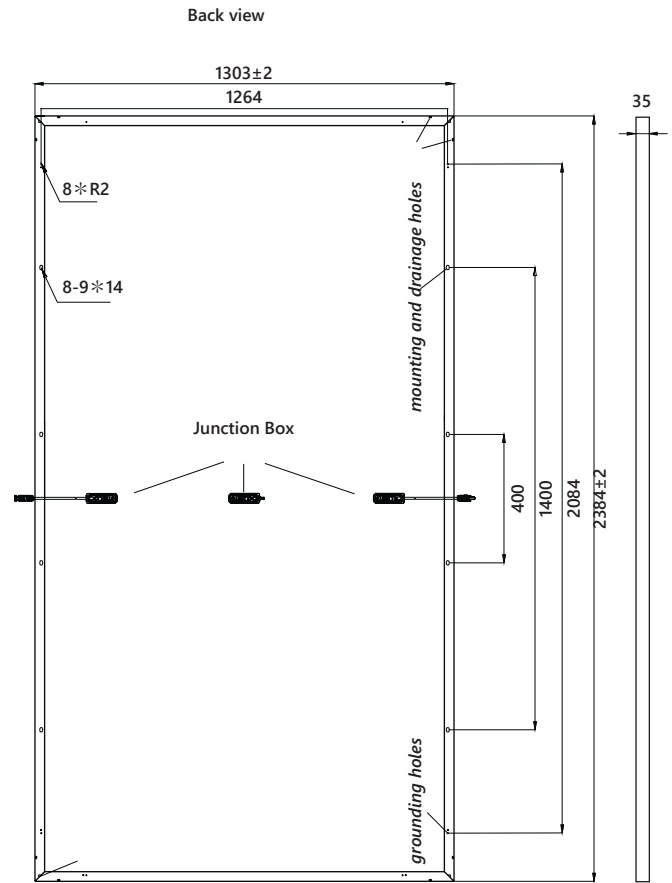
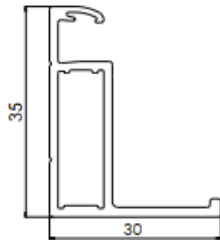
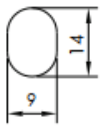
Minimal impact
from shades
to power
production



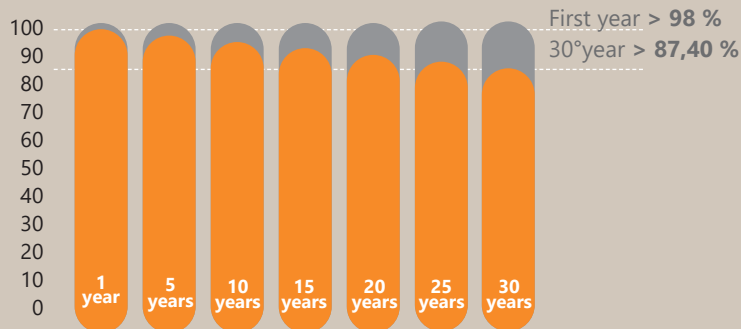
Felling
of hot spot
generation
risk

Mechanical data

Cell type	N-type Mono-cristalline
Cell arrangement	132
Module dimensions	2.384 x 1.303 x 35 mm
Weight	38,3 kg
Module structure	glass / glass
Glass thickness	2,0 mm + 2,0 mm
Module classification	Class I
Protection class	
Junction box rating	IP68 - 3 diodi
Cables	4 mm ² , portatrait +350 mm / -300 mm
Connector type	Compatible MC4



Highest level power output



Power
output >
87,4

after 30 years

Certifications

- IEC 61215 Certification of photovoltaic module performance requirements
- IEC 61730 Module safety certification
- IEC 62716 Corrosion resistance from atmosphere with high percentage of ammonia
- IEC 61701 Salt spray corrosion resistance
- IEC 62804 PID immunity certification



Electrical specification

	G690N12B-66HSW	Bifacial Gain	
		5%	10%
Module type	G690N12B-66HSW	5%	10%
Pm (W)	690	725	759
Imp (A)	17,23	18,09	18,95
Vmo	40,05	40,05	40,05
Isc (A)	18,26	19,17	20,09
Voc (A)	47,84	47,84	47,84
Module efficiency	22,21%	23,32%	24,43%

Pmax tolerance \pm 3% - STC: AM1.5 1500W/m² 25°C - NOCT: AM1.5 800W/m² 20°C

Temperature Characteristics

Nominal Operating Cell Temperature (NOCT)	44°C \pm 2°C
Temperature Coefficient of Isc	+0,04% / °C
Temperature Coefficient of Voc	-0,24% / °C
Temperature Coefficient of Pmax	-0,29% / °C

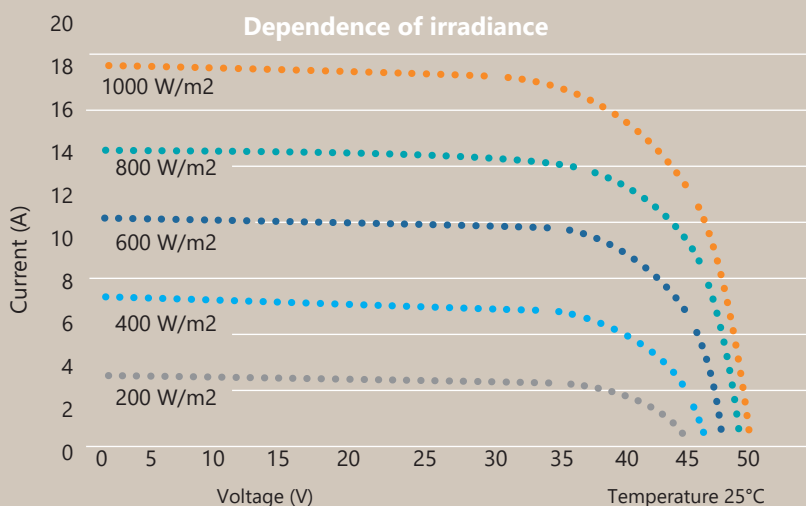
Packaging

Pallet Dimensions	242 x 135 x 152 cm
Container	40' HQ
Pieces per pallet	31
Pieces per container	558



POSITIVE TOLERANCE

+0/+5 W



Maximum ratings

Operating temperature	from -40 °C to +85 °C
Maximum load capacity	5.400 Pa
Maximum system voltage	1.500 VDC
Maximum series fuse rating	30A
Number of diodes	3

Disclaimer: due to ongoing technological advancements, the parameters of the product will be adjusted to the needs. At the moment of the contract signing the latest data available stated by the company are the ones that will be referred to.

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Italian panel generation

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