

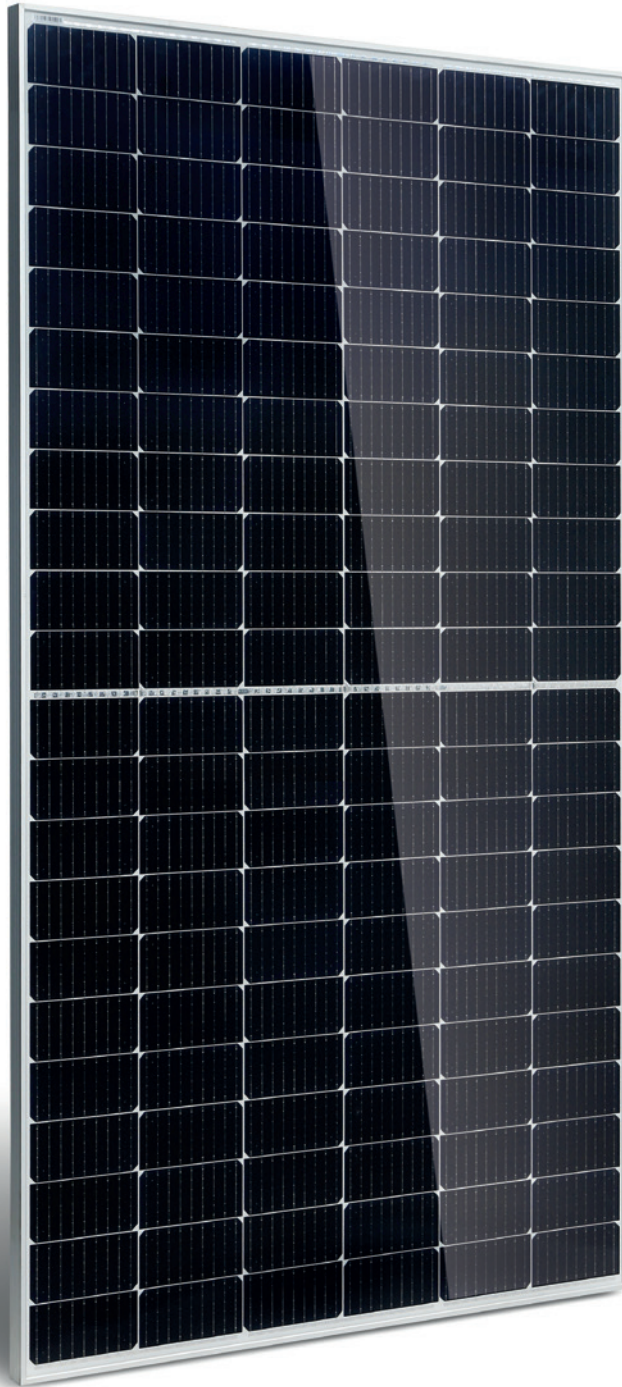


**Performance 670**



**OMNIA<sup>®</sup>**  
S O L A R  
Italian panel generation

2384 x 1303 mm



## Performance 670

High efficiency photovoltaic modules ideal for civil, commercial, industrial and utility scale installations.

132 MONO crystalline cells in a **Half-cell** configuration with **PERC** technology welded up to 11 busbar.



40 years warranty on the product

Guaranteed output Power > **84.95 %** after **30** years

# 100% made in **Italy** **Photovoltaic** modules, made with **passion**.

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

Clearly to give such a warranty the product must be made with the highest care:

- We only use the **highest quality raw materials**;
- We automated **each step** of our production process;
- We supervise every step of the production with dedicated operators for **visual** and **technical inspection**: we want to be sure to reach the highest quality standard available;
- A final production line **check** is applied **to 100% of the panels** at the end of the production phase to ensure the excellence of our products.



High performance  
reliability even with  
environmental  
temperature shifts



Higher  
power  
production



High  
mechanical  
stress  
resistance



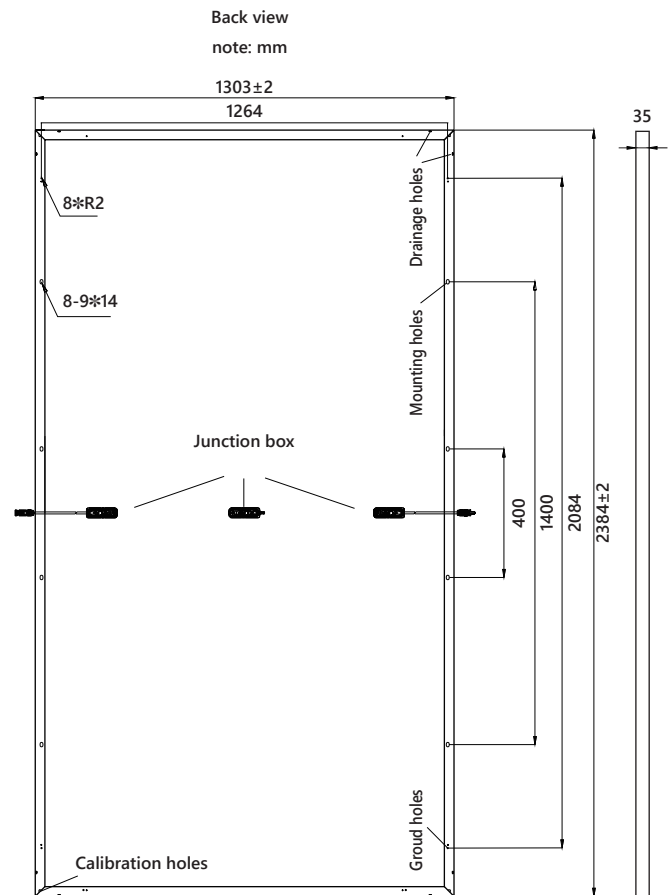
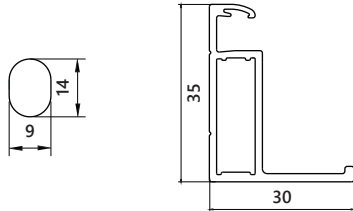
Minimal impact  
from shade  
to power  
production



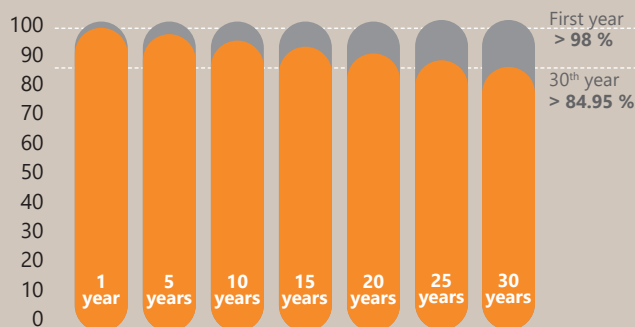
Felling  
of hot spot  
generation  
risk

## Mechanical Data

Cell Type	type Mono-crystalline
Cell Arrangement	132 (6x22)
Module Dimensions	2384 x 1303 x 35 mm
Weight	38.3 kg
Module Structure	Glass / Glass
Glass Thickness	2.0 mm + 2.0 mm
Module Classification	Class II
Protection class	
Junction Box Rating	IP68
Cables	4 mm <sup>2</sup> , +300 mm /-300 mm
Connector Type	MC4 Compatible



## Highest level power output



Power output >  
84.9

after 30 years

## Certifications

IEC 61215 System usage durability  
IEC 61730 Safety module qualification



## Electrical Specifications

Module Type	G650M12B-66HSW		G655M12B-66HSW		G660M12B-66HSW		G665M12B-66HSW		G670M12B-66HSW	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
<b>Pm (W)</b>	650	493	655	497	660	501	665	504	670	508
<b>Imp (A)</b>	17.23	13.71	17.29	13.76	17.35	13.80	17.40	13.84	17.46	13.89
<b>Vmp</b>	37.73	35.96	37.89	36.11	38.04	36.25	38.22	36.42	38.38	36.58
<b>Isc (A)</b>	18.28	14.80	18.34	14.85	18.40	14.89	18.45	14.94	18.51	14.98
<b>Voc (V)</b>	45.56	43.14	45.71	43.28	45.85	43.06	46.02	43.57	46.20	43.74
<b>Module Efficiency</b>	<b>20.92%</b>		<b>21.09%</b>		<b>21.02%</b>		<b>21.41%</b>		<b>21.57%</b>	

Performance enhancement	5%	10%	5%	10%	5%	10%	5%	10%	5%	10%
<b>Pmax / W</b>	683	715	688	721	693	726	698	732	704	737
<b>Module Efficiency</b>	21.97	23.01	22.14	22.92	22.07	23.12	22.48	23.55	22.65	23.73

Pmax Tolerance 0/+5W - Bifaciality: 70% ± 10% - STC: AM1.5 1000W/m<sup>2</sup> 25°C - NOCT: AM1.5 800W/m<sup>2</sup> 20°C 1m/s - Measurement uncertainty: ± 3%

## Temperature Characteristics

<b>Nominal Operating Cell Temperature (NOCT)</b>	44°C ± 2°C
<b>Temperature Coefficient of Isc</b>	+0.04% / °C
<b>Temperature Coefficient of Voc</b>	-0.25% / °C
<b>Temperature Coefficient of Pmax</b>	-0.34% / °C

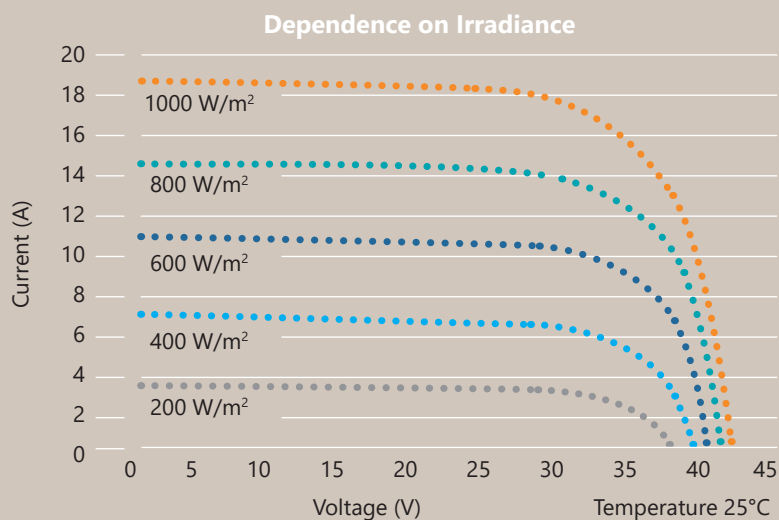
## Imballaggio

<b>Pallet Dimensions</b>	242 x 135 x 162 cm
<b>Container</b>	40' HQ
<b>Pieces per Pallet</b>	31
<b>Pieces per Container</b>	558



POSITIVE  
TOLERANCE

**+0/+5W**



## Maximum Ratings

<b>Operating Temperature</b>	-40 °C to +85 °C
<b>Maximum Load Capacity</b>	5400 Pa
<b>Maximum System Voltage</b>	1500 VDC
<b>Maximum Series Fuse Rating</b>	30A
<b>Number of diodes</b>	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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**OMNIA**<sup>®</sup>  
**S O L A R**  
Italian panel generation

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