

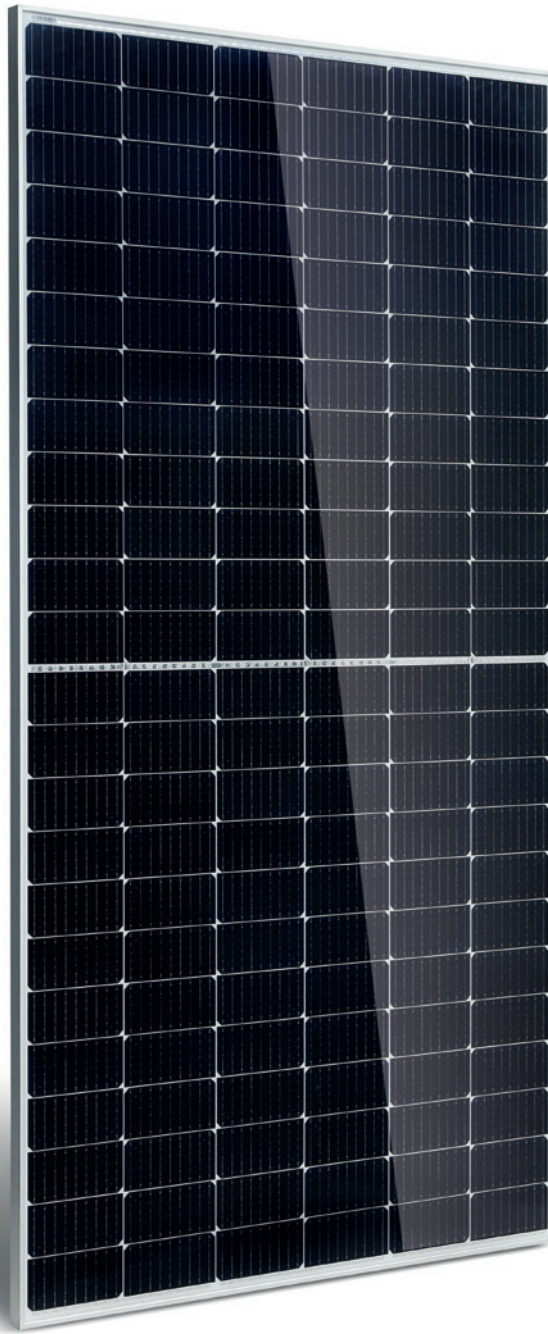


Performance 545



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

2278 x 1134 mm



Performance 545

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

144 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



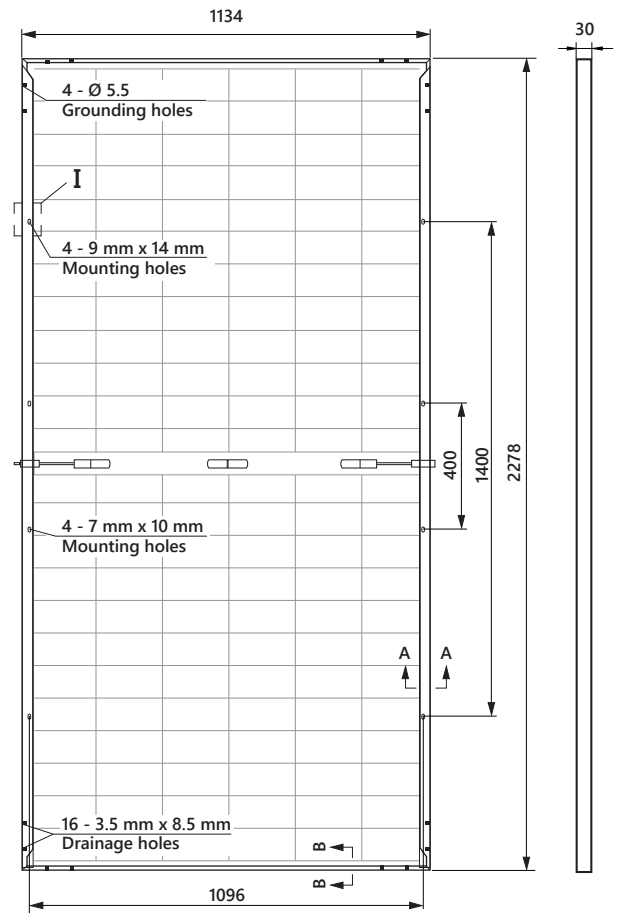
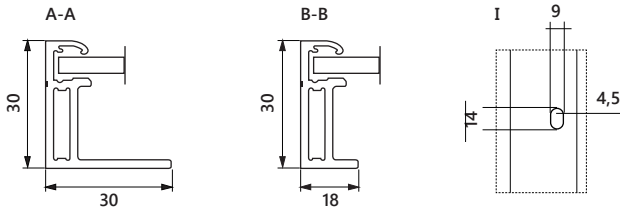
Minimal impact from shade to power production



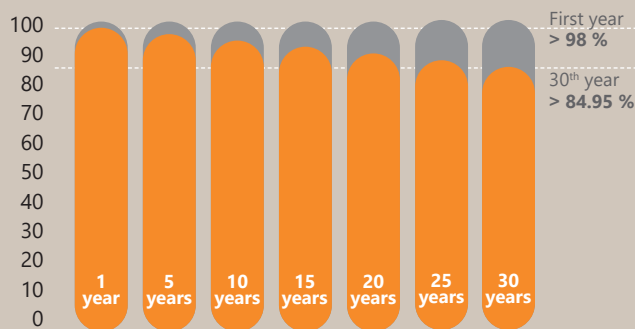
Felling of hot spot generation risk

Mechanical Data

Cell Type	type Mono-crystalline
Cell Arrangement	144 (6x24)
Module Dimensions	2278 x 1134 x 30 mm
Weight	32.2 kg
Module Structure	Glass / Glass
Glass Thickness	2.0 mm + 2.0 mm
Module Classification	Class II
Protection class	
Junction Box Rating	IP68 - 3 diodes
Cables	4 mm ² , positive +400 mm / negative -200 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	G530M10B-72HSW		G535M10B-72HSW		G540M10B-72HSW		G545M10B-72HSW	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Pm (W)	530	402	535	406	540	410	545	413
Imp (A)	12.74	10.14	12.81	10.19	12.88	10.25	12.95	10.30
Vmp	41.60	39.64	41.76	39.80	41.93	39.96	42.10	40.12
Isc (A)	13.48	10.91	13.57	10.98	13.66	11.06	13.73	11.11
Voc (V)	49.50	46.87	49.70	47.06	49.90	47.25	50.10	47.43
Module Efficiency	20.52%		20.71%		20.90%		21.10%	
Performance enhancement	5%	10%	5%	10%	5%	10%	5%	10%
Pmax / W	557	583	562	589	567	594	572	600
Module Efficiency	21.55	22.57	21.75	22.78	21.95	22.99	22.16	23.21

Pmax Tolerance 0/+5W - Bifaciality: 70% ± 10% - STC: AM1.5 1000W/m² 25°C - NOCT: AM1.5 800W/m² 20°C 1m/s - Measurement uncertainty: ± 3%

Temperature Characteristics

Nominal Operating Cell Temperature (NOCT)	45°C ± 2°C
Temperature Coefficient of Isc	+0.045% / °C
Temperature Coefficient of Voc	-0.270% / °C
Temperature Coefficient of Pmax	-0.350% / °C

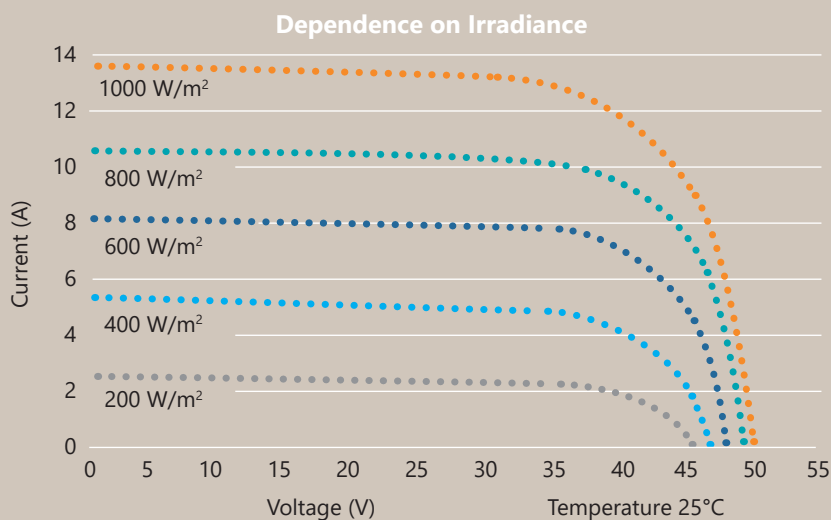
Packaging

Pallet Dimensions	229.2 x 111 x 118 cm
Container	40' HQ
Pieces per Pallet	36
Pieces per Container	720



POSITIVE
TOLERANCE

+0/+5W



Maximum Ratings

Operating Temperature	-40 °C to +85 °C
Maximum Load Capacity	5400 Pa
Maximum System Voltage	1500 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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S O L A R
Italian panel generation

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