

Silver 415



1722 x 1134 mm



Silver 415

High efficiency photovoltaic modules ideal for civil and commercial installations.

A lot of power in a compact package.

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

Also available with black frame G415M10-54HBW.



30 years warranty on the product

Guaranteed output Power > **84.8 %** after 25 years

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

Let's start from the **warranty: 30** 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



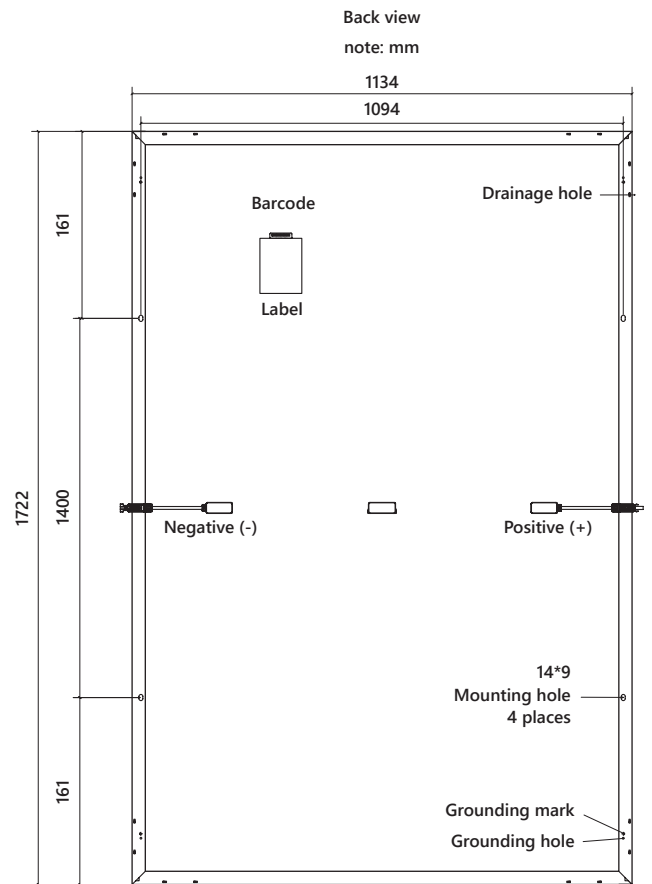
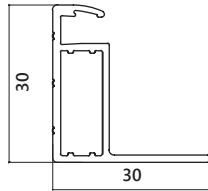
Minimal impact from shade to power production



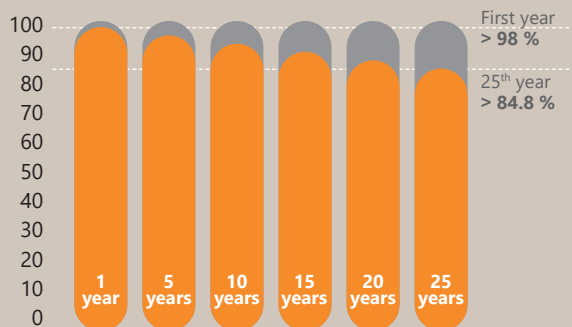
Felling of hot spot generation risk

Mechanical Data

Cell Type	type Mono-crystalline
Cell Arrangement	108 (6x18)
Module Dimensions	1722 x 1134 x 30 mm
Weight	21.2 kg
Module Structure	Glass / Encapsulant / Backsheet
Glass Thickness	3.2 mm
Module Classification	Class II
Protection class	
Junction Box Rating	IP68
Cables	4 mm ² / 1100 mm
Connector Type	PV-ZH202B or MC4 (1000V) PV-ZH202B or MC4-EVO2 2A (1500V)



Highest level power output



Power output >
84.8

after 25 years

Certifications

- IEC 61215** System usage durability
- IEC 61730** Safety module qualification
- IEC 62716** Ammonia corrosion
- IEC 61701** Salt mist corrosion



Electrical Specifications

Module Type	G400M10-54HSW/HBW		G405M10-54HSW/HBW		G410M10-54HSW/HBW		G415M10-54HSW/HBW	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Pm (W)	400	303	405	307	410	311	415	315
Imp (A)	13.03	10.32	13.11	10.40	13.20	10.47	13.29	10.52
Vmp	30.73	29.38	30.91	29.55	31.09	29.72	31.27	29.90
Isc (A)	13.90	11.15	13.98	11.21	14.06	11.28	14.13	11.33
Voc (V)	37.09	35.23	37.21	35.34	37.33	35.46	37.45	35.57
Module Efficiency	20.48%		20.74%		21.00%		21.25%	

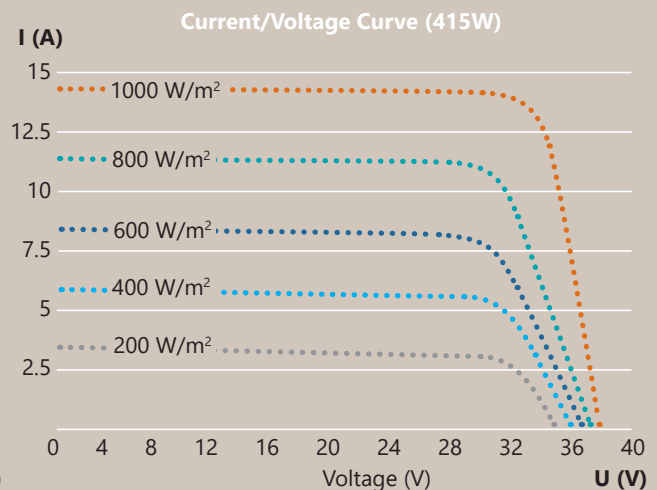
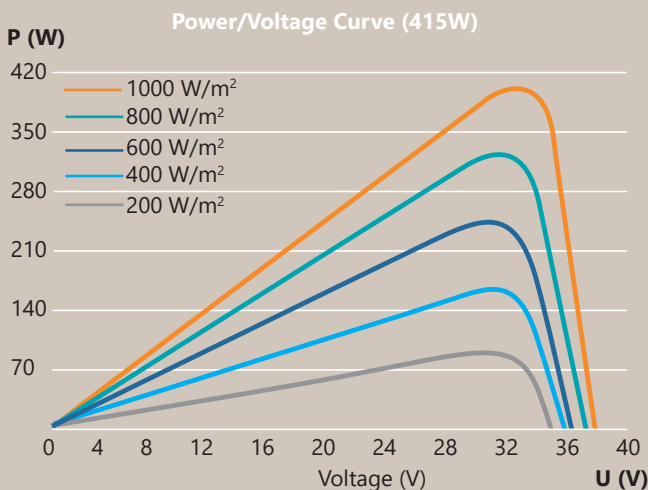
Pmax Tolerance 0/+3% - STC: AM1.5 1000W/m² 25°C - NOCT: AM1.5 800W/m² 20°C 1m/s - Measurement uncertainty: ± 3%

Temperature Characteristics

Nominal Operating Cell Temperature (NOCT)	42 ± 3 °C
Temperature Coefficient of Isc	+0.0448% / °C
Temperature Coefficient of Voc	-0.246% / °C
Temperature Coefficient of Pmax	-0.330% / °C

Packaging

Pallet Dimensions	1770 x 1140 x 1250 mm
Container	40' HQ
Pieces per Pallet	36
Pieces per Container	936



Maximum Ratings

Operating Temperature	-40 °C to +85 °C
Maximum Load Capacity	Snow 5400 Pa / Wind 2400 Pa
Maximum System Voltage	1000 V / 1500 V DC (IEC)
Maximum Series Fuse Rating	25A
Number of diodes	3
Fire Rating Class (UNI9177)	Class 1

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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