

# MICRON 72P SILVER POWER PLUS

10  
years

10 years of guaranteed performance at an output power of 90%

25  
years

25 years of guaranteed performance at an output power of 80%

12  
years

12 year product guarantee against manufacturing defects,

## HIGH-EFFICIENCY POLICRYSTALLINE PANELS

### Micron 72 Polycrystalline Silver Power Plus

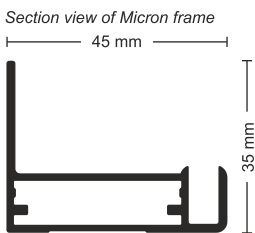
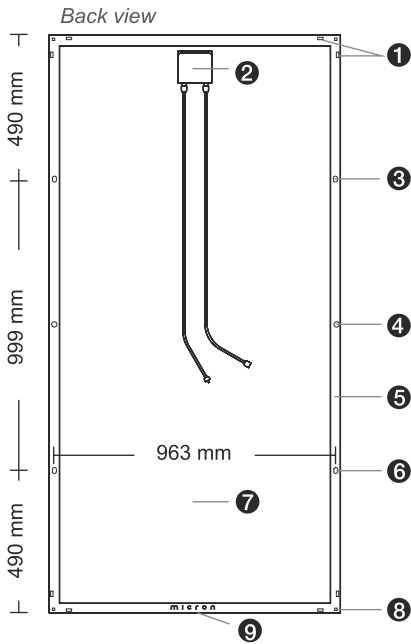
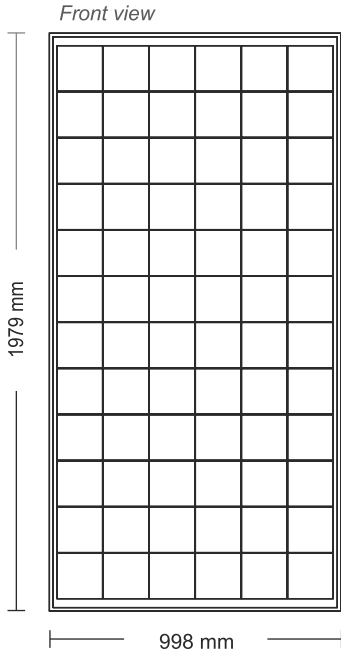
Policrystalline Produced by **Cappello Alluminio s.r.l.**, the Micron photovoltaic module is the fruit of a careful research and a consolidated know-how. The Micron series is designed to ensure higher standards in terms of power, continuity, and reliability in electrical performance, even under non-optimal operating conditions, guaranteed by an efficient production line control system and final monitoring of 100% of the produced modules. The **Micron Silver Power Plus 72 P** is associated with high structural solidity resulting from the distinctive properties of its high-technology component:

- high performance even under conditions of poor solar radiance;

- 3 bus-bar to reduce the series resistance of the module and to limit the operating temperature of the module, reducing the overheating due to the electrical current being generated by the photovoltaic cells;
- assembled with a smooth prismatic solar glass
- 1000 V of insulation attained from the coupling of a Back-Sheet with layers of ethylene-vinyl-acetate (EVA) materials;
- aluminum frame for a greater mechanical resistance and to facilitate installation;
- resistance of the module to heavy snow and/or wind loads (maximum pressure 5400 Pa - about 550 kg/m<sup>2</sup>).



# MICRON 72 P SILVER POWER PLUS



Electrical Characteristics Micron 72 P Silver Power Plus

MODULE CATEGORY		CA270P72	CA275P72	CA280P72	CA285P72	CA290P72	CA295P72	CA300P72	CA305P72	CA310P72
Maximum Power	Pmax [Wp]	270	275	280	285	290	295	300	305	310
Open circuit voltage	Voc [V]	43,85	43,99	44,14	44,42	44,64	44,86	45,14	45,42	45,70
Voltage at maximum power	Vmp [V]	35	35,1	35,2	35,3	35,5	35,8	36,10	36,41	36,71
Short-circuiting current	Isc [A]	8,04	8,11	8,22	8,34	8,38	8,43	8,48	8,54	8,60
Current at maximum power	Imp [A]	7,72	7,84	7,96	8,08	8,16	8,24	8,31	8,38	8,45
Maximum system voltage	Vmax [V]	1000	1000	1000	1000	1000	1000	1000	1000	1000

Rated Power with tolerance 0/+5W. The values of the other electrical parameters may have a tolerance of ± 5%.

**N.B.** The values of the electrical parameters in the table above refer to photovoltaic modules leaving the manufacturing process and are determined under Standard Conditions (STC): Air mass 1.5 - irradiation 1000 W/m<sup>2</sup> - temperature of the module 25 °C.

Dimensions of the module Micron 72 P Silver Power Plus (with frame)

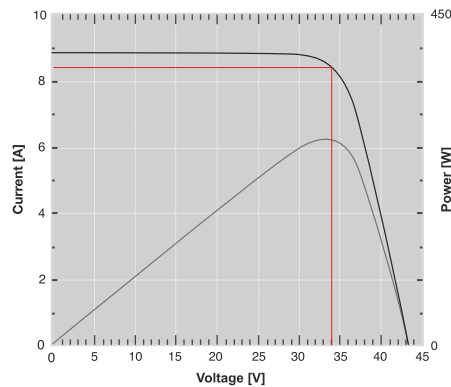
MODULE CATEGORY		CA270P72	CA275P72	CA280P72	CA285P72	CA290P72	CA295P72	CA300P72	CA305P72	CA310P72
Module dimensions (long side)	LL [cm]	197,9	197,9	197,9	197,9	197,9	197,9	197,9	197,9	197,9
Module dimensions (short side)	Lc [cm]	99,8	99,8	99,8	99,8	99,8	99,8	99,8	99,8	99,8
Module surface area	Am [mq]	1,975	1,975	1,975	1,975	1,975	1,975	1,975	1,975	1,975
Module efficiency		13,67%	13,92%	14,18%	14,43%	14,68%	14,94%	15,19%	15,44%	15,69%

The Micron module conforms with CEI EN Standard 61215, CEI EN Standard 61730-2

TEMPERATURE COEFFICIENT	NOCT
POWER	-0,41 %/K
CURRENT	+0,04 %/K
VOLTAGE	-0,30 %/K

44,7°

Current/Voltage and Power/Voltage Curves (285 Wp Micron 72 P module)



Further characteristics of the module Micron 72 P Silver Power Plus

**Dimensions:** 1979x998x45 mm (module with frame); 1971x990x5 mm (frameless module).

**Weight:** module with frame: 26 Kg in case of smooth glass; frameless module: 23 Kg in case of smooth glass.

**Junction Box:** Tyco Electronics, Protection level IP 65, quick connect. Contains 3 Schottky-type bypass diodes to minimize any losses due to the shadowing of the module.

**Cable:** Tyco Electronics, 4 mm<sup>2</sup> section, length 120 cm (on customer demand, also 100 cm or 60 cm). Maximum sustainable voltage 1000 V.

**Terminal:** Tyco Electronics quick connect, protection level IP 67.

**Smooth glass:** Tempered, prismatic, perfectly smooth surface, thickness 3,2 or 4 mm.

**Photovoltaic cells:** 72 photovoltaic cells polycrystalline sili con with 3 busbar. Cell dimensions 15.6 cm x 15.6 cm - Cell area 243.36 cm<sup>2</sup>. The cells are encapsulated in layers of EVA (ethylene vinyl acetate).

**Ribbon:** Copper coated with Sn 68%, Pb 30%, Ag 2%

**Back-Sheet:** COVEME dyMat® PYE, double layer of high-performance polyester with guaranteed resistance against atmospheric agents, oxygen, humidity. Colour: white (on customer demand, also black, blue, red, transparent).

**Frame:** Anodized aluminum with thickness of 45 mm, silver colour. Different colors are nevertheless available, on demand. Resistance of the module to heavy snow and/or wind loads (maximum pressure 5400 Pa - about 550 kg/m<sup>2</sup>).

**Key:**

- 1) Buttonhole (dim. 15x5 mm) for the drainage of the internal frame;
- 2) Junction box;
- 3) Buttonhole (dim. 12x7 mm) for the fixing of the module;
- 4) Buttonhole (ø 6 mm) for the grounding of the module;
- 5) Anodized aluminum frame;
- 6) Buttonhole (dim. 12x7 mm) for the fixing of the module;
- 7) White/black/colored/transparent Back-Sheet;
- 8) Buttonhole (dim. 5x5 mm) for the drainage of the frame;
- 9) Brand of originality Micron.

The company reserves the right to change, without prior notice, materials and product specifications for technical and/or manufacturing reasons.



**CAPPELLO ALLUMINIO** s.r.l.

Made in Italy

made in europe

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The Micron module conforms with CEI EN Standard 61215, CEI EN Standard 61730-2.

UNI EN ISO 9001:2008  
UNI EN ISO 14001:2004  
UNI EN ISO 18001:2007

