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ENERGYGLASS®
SOLAR & GLASS ARCHITECTURE

PHOTOVOLTAIC BALCONY

- The PHOTOVOLTAIC BALCONY design solution allows you to actively use balconies to **generate energy.**
- **We can customise** products based on a specific project.
- It is made with EnergyGlass photovoltaic glass, which can be classified as **Building Integrated Photovoltaics** (BIPV).
- We use IEC EN 61215 and IEC EN 61730 certified **laminated safety glass** with PVB SOLAR™
- Thanks to the **double-sided cells**, the ALL-GLASS PHOTOVOLTAIC BALCONY can capture both incident light on the front and on the back of the cell up to +25W.

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Electrical characteristics in STC* - Front (sun side)

Power class	P_{max}	**176 Wp**
Sorting tolerance	P_{max}	**5 %**
Open circuit voltage	V_{oc}	**23,71 V**
Short circuit current	I_{sc}	**8,82 A**
Max. power voltage	V_{mp}	**20,82 V**
Max. power current	I_{mp}	**8,48 A**

* STC: Radiation 1000W/mq - Module temperature = 25°C - - Air mass AM 1,5

Double-sided: $P_{max,\ bifi100}$ 182 Wp, $P_{max,\ bifi200}$ 189 Wp, $P_{max,\ bifi300}$ 195 Wp

Mechanical Characteristics

Transparency	30 %
Height	1230 mm
Width	1025 mm
Thickness	21,52 mm
Weight	64 Kg
Type of Cells	36 Double-sided monocrystalline cells 4BB
Front Glass (sun side)	th.10 mm Extra light, MFL, Hardened
Encapsulating	th.1.52 mm PVB SOLAR™
Rear Glass	th.10 mm Extra light, MFL, Tempered+HST
Type of protection	IP68
Electric connections	Edge connector + MC4 (supplied separately)
Cable	Solar cable 4 mm2 – Length 1.0 m
Maximum Load	3 kN/m*

* The horizontal linear load test was performed with a 3 kN/m overload on a balustrade with continuous linear fixing to the base combined with tempered-hardened EnergyGlass 10.10+1.52 PVB glass and photovoltaic cells.

Thermal specifications

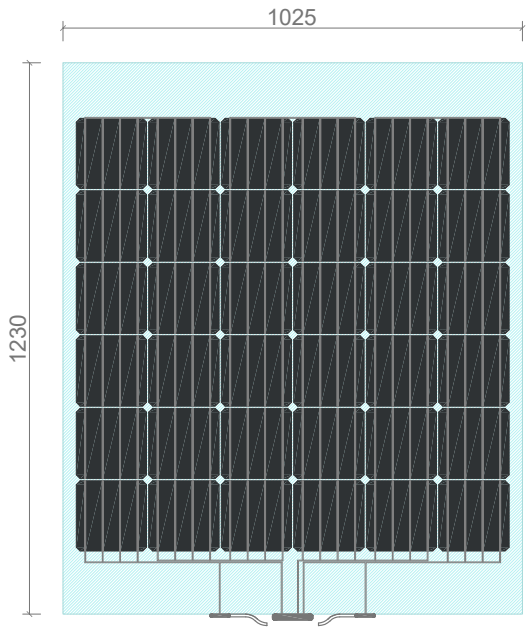
NOCT	45°C
TC I_{sc}	+3.70 mA/°K
TC V_{oc}	-2.00 mV/°K
TC P_{mpp}	-0.40 %/°K

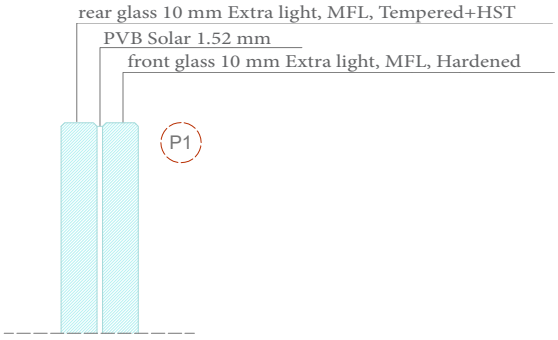
System limits

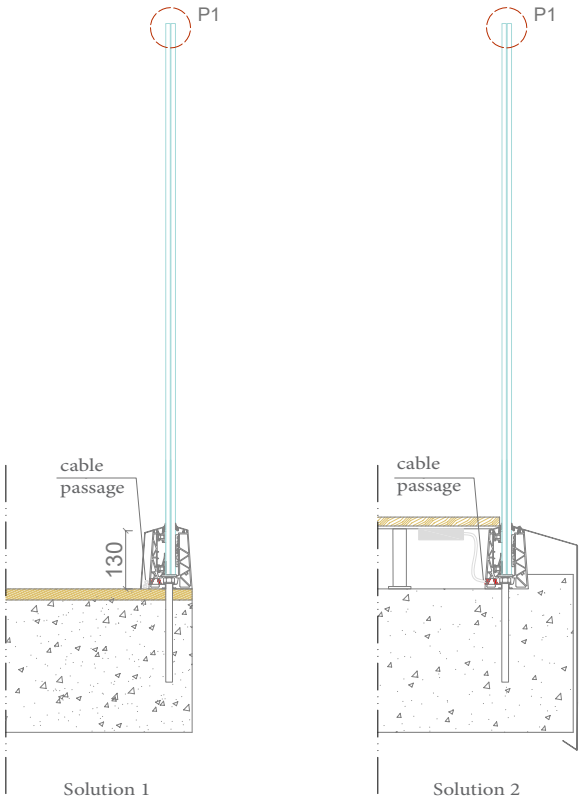
Operating temperature from -40°C to 85°C
Max. system voltage class II - 1000 V

Standards and Certifications

UNI 7697
CEI EN 61215
CEI EN 61730







The company reserves the right to make changes to the technical data of the product.
The technical data sheet meets the requirements of EN 50380. Rep. 1 11/2018