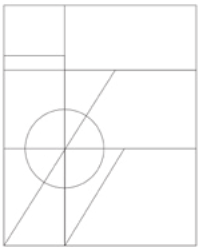


Technical data sheet



1

Dimensions and shapes

1130 x 1715 mm

(minimum dimension 250 x 300 mm,
maximum dimension 1500 x 2500 mm)

Colour Solar photovoltaic panels come in a standard size that can be tailored to fit up to 1500x2500 mm or smaller, with various shapes adaptable to the roof's form. We analyse the optimal sunlight exposure areas, strategically place dummy panels, and implement detailed solutions to ensure maximum energy generation.

2

Basic configuration

glass - glass (4+4 mm), weight 45 kg/pc
glass 6 mm - backsheet weight 35 kg/pc

3

Maximum configuration

glass - glass (10+10 mm), weight 105 kg/pc
glass 10 mm - backsheet weight 55 kg/pc

4

Connector

Each panel has 2 contacts with a cross section of 4 mm² and a length of 300 mm with an MC4 connector.

5

Warranty

The panels come with a 12-year warranty, the inverters are covered for 6 years, and there's a 25-year performance warranty for the solar panels. reliability of the products.



6

Distinct features

High resolution

800 DPI printing guarantees flawless image reproduction quality.

Tempered glass

Offers up to four times more strength and safety than standard glass, also providing excellent transmissivity and low reflection.

UV resistant

Our coloured solar panels feature ceramic colours that are resistant to UV radiation and fading.

Photo quality

The colored pigment penetrates directly into the material and becomes a part of it.

Ceramic ink

Special inorganic inks are developed for exterior use.

Antireflex glass

Our solar panels also come in matte glass, offering a unique aesthetic with exceptional translucence and clarity above 90%.



Solar panels combine aesthetic appeal with ecological benefits through a low-carbon manufacturing approach. This method optimises CO₂ emissions throughout production, including customer deliveries. Our development of low-carbon float glass has reduced our carbon footprint by 40 %, showcasing a commitment to sustainability. This holistic strategy provides a greener energy solution, emphasising eco-friendly power generation.

7

MECHANICAL CHARACTERISTICS

Solar cells	Monocrystalline [pcs / ks]	132 pcs / ks, 182 x 91 mm, Half cut
Front glass	UV resistant glass [mm]	4 mm
Backsheet		Black, transparent or other colour*
Encapsulant		EVA transparent
Frame/ Frameless		Anodized aluminum alloy - silver, black or other colour***
Junction box		Standard IP 68, 3 Bypass diodes
UV-resistant cables **	[mm]	Length 1400 mm
Connectors		MC4 - compatible
Max. load	[Pa]	Wind, snow 2400 / 5400
Fire protection		C

* Other backsheet colour or frame can be delivered on the customer request.

** UV-resistant cables can be order in different lenght. Standard lenght is 290 mm

*** Frameless version of the panel - supporting aluminium profiles can be glued on the back side and the panels can be subsequently hung on the aluminium grid of the facade/roof (principle as for glass ventilated facade).

8

TEMPERATURE CHARACTERISTICS

Nominal Module Operating Temperature	[°C]	41°C ±3°C max
Temp. Coefficient (Pmax)	[%/°C]	- 0.35
Temp. Coefficient (Voc)	[%/°C]	- 0.27
Temp. Coefficient (Isc)	[%/°C]	+ 0.05

9

An example of ELECTRICAL & TECHNICAL CHARACTERISTICS with KM Beta printing

Nom. Max. Power (Pmax)	[Wp]	450
Max. Power Voltage (Vmp)	[V]	37,1
Max. Power Current (Imp)	[A]	12,12
Open Circuit Voltage (Voc)	[V]	44,8
Short Circuit Current (Isc)	[A]	12,67
Module Efficiency (ηm)	[%]	19,16
Max. System Voltage DC	[V]	600
Max. Series Fuse Rating	[A]	23

The resulting performance depends on the selected graphic design (expected performance is around 300 Wp).