

Photovoltaics with design.

PVP
Photovoltaik

Facade-Module

Colourful connection

Quality and design has many faces

Product overview

Max. power P _{mp} [Wp]	up to 225 (dep. on colour & size)
Standardized lengths [mm]	690 / 1385 / 2080
Standardized widths [mm]	460 / 720 / 995
Weight [kg]	17,5 kg/m ²

Mono crystalline



First lighthouse project – active glass facade in Zurich with **160 kWp** photovoltaic capacity

Bring colour & energy into your facade

The new active glass facade from PVP Photovoltaik: PV modules customized with every required colour. The PV structure below is invisible.

Basis is a PV module with monocrystalline cells. The upper glass layer is printed in every required individual colour. The result: an active glass facade that provides energy - with top design!

PVP transforms your facade or building envelope into a power plant for solar energy. With unlimited design possibilities.

Available with different standardized sizes & colours.

Individual colours, modules without function & special sizes by request!



Electrical data

(depending on colour,
basis size 1.385x995mm)



Colour code	Without colour	Light grey NCS S 1502-Y50R	Turquoise NCS S5020-G10Y	Light yellow NCS S1020-Y10R	Red NCS S2570-Y70R	Light green NCS S0540-G80Y
Max. power P _{mp} [Wp]	230	160	110	120	150	150
Voltage at P _{mp} [V]	26,15	26,15	26,2	26	26,2	25,8
Current at P _{mp} [A]	8,80	6,14	4,2	4,6	5,7	5,8
Open circuit voltage [V]	31,73	31,46	31,1	31,2	31,5	31,5
Short circuit current [A]	9,26	6,49	4,3	4,8	6	5,8

standard testing conditions (STC): 1.000W/m² - AM 1,5 - 25 °C

Minor reduction in efficiency under partial load conditions: at 200W/m² 95% of the STC efficiency (1,000W/m²) is achieved.

Efficiency

depending on colour (Wp/m²)

Without colour	Light grey NCS S 1502-Y50R	Turquoise NCS S5020-G10Y	Light yellow NCS S1020-Y10R	Red NCS S2570-Y70R	Light green NCS S0540-G80Y
165 Wp	120 Wp	85 Wp	90 Wp	110 Wp	110 Wp

Additional data

Mono crystalline

Sorting	-3% bis +3%
Max. system voltage	1000 V
Safety class	II
Max. reverse current	15 A
Junction box	TyCO (opt. external performance optim.)
Bypass diodes	3 type Schottky
Protection class junction box	IP 67
Cable length/width	1000 mm / 4 mm ²
Junction box connection	Tyco PV4 / MC4 kompatibel
Operating temperature	-40°C ~ +85°C
Cells	156 x 156 mono
Solar glass TVG	front: 4mm frosted / back: 4mm

Option:

The energy facade is available with different standard sizes and colours.

Individual sizes & modules without performance:

Min. size: 355 x 355 mm / Max. size: 2113 x 1600 mm

Min. glass thickness: 2 x 4 mm / Max. glass thickness: 2 x 8 mm

Colour: customized

More options (on request):

Thermo-glass, gas filling, variable cell distances, double-glass, three-fold-glass,...

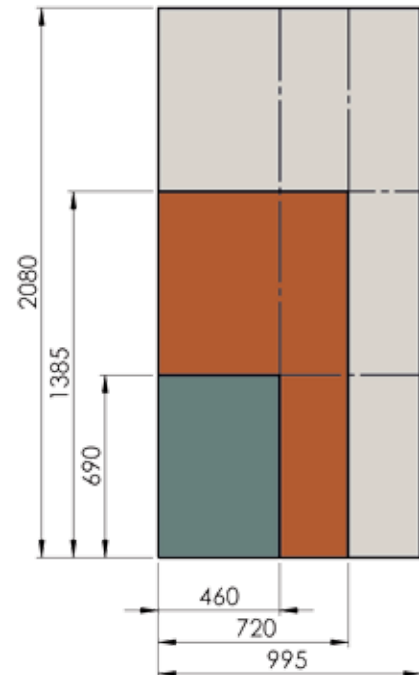


Fig: Modular construction with standard sizes between max. H: 2.080 mm and max. W: 995 mm with 5 mm gap

Measurement tolerance P_{max} ±3 %

This datasheet is not legally binding. Actual specifications and/or product features may vary. PVP Photovoltaik reserves the right to make changes to specifications without notice. Caution: Read the safety and installation instructions before using the product. The currently valid warranty/guarantee declaration and the general delivery terms and conditions are part of this datasheet. Further details can be found on our website (www.pvp.co.at). This data sheet complies with the requirements of EN50380.