

Saint-Gobain Frameless 6 poly



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The Frameless 6 photovoltaic panel from Saint-Gobain Solar Systems S. A. combines the properties of a high-performance standard module with the advantages of an unframed photovoltaic laminate. The manufacturing of the Frameless 6 panels takes place by using high-power solar cells which assure an efficient and profitable photovoltaic power plant. The frameless design avoids long term dirt accumulation at the edge of the panel and conveys down sliding of snow loads. The covering of the electrical connections and the usage of different colored backsheets preserve an ideal aesthetical overall picture of the photovoltaic generator on the given roof.

All panels of the Saint-Gobain Frameless series feature bypass diodes. The diodes minimise power loss in case of shading and protect the panel against hot spot effect.

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Electrical performance at Standard Test Conditions

		190	195	200	205	210	215
Maximum electrical power (+/-3%)	P_{max}	190 Wp	195 Wp	200 Wp	205 Wp	210 Wp	215 Wp
Short Circuit Current	I_{sc}	7,60 A	7,62 A	7,65 A	7,68 A	7,69 A	7,70 A
Open Circuit Voltage	V_{oc}	36,00 V	36,20 V	36,40 V	36,80 V	37,00 V	37,20 V
Rated Current	I_{mpp}	7,00 A	7,02 A	7,05 A	7,07 A	7,09 A	7,12 A
Rated Voltage	V_{mpp}	27,20 V	27,80 V	28,40 V	29,00 V	29,70 V	30,20 V

Performance at NOCT, AM 1,5, 800 W/m²

		190	195	200	205	210	215
Maximum electrical power	P_{max}	140 Wp	144 Wp	148 Wp	152 Wp	156 Wp	160 Wp
Short Circuit Current	I_{sc}	6,14 A	6,16 A	6,18 A	6,21 A	6,22 A	6,22 A
Open Circuit Voltage	V_{oc}	33,64 V	33,84 V	34,04 V	34,44 V	34,64 V	34,84 V
Rated Current	I_{mpp}	5,66 A	5,68 A	5,70 A	5,72 A	5,74 A	5,76 A
Rated Voltage	V_{mpp}	24,85 V	25,45 V	26,05 V	26,65 V	27,35 V	27,85 V

Thermal characteristics

NOCT		43
Current temperature coefficient	TC I_{sc}	0,05%/K
Voltage temperature coefficient	TC V_{oc}	-0,36 %/K
Power temperature coefficient	TC P_n	-0,46%/K

Build-in components

Cell type	Polycrystalline
Cells per Module	60
Cell dimensions	156 x 156 mm ²
Junction box	IP 65 with 3 bypass diodes
Glass	Tempered glass
Glass thickness	6 mm

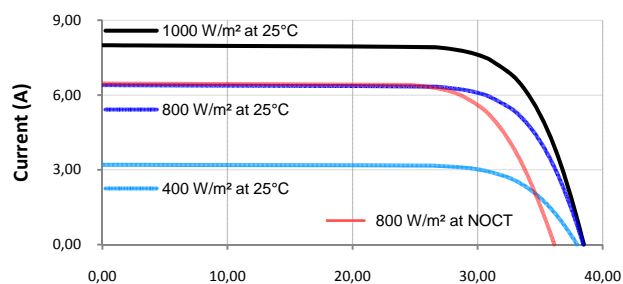
Characteristic quantities for system integration

Maximum permissible system voltage	1000 V
Protection classification	Safety Class II
Efficiency reduction 1000 – 200 W/m ² (+/-3%)	96% at STC
Limiting reverse current	12 A

General characteristics

Module weight	26,8 kg
Connection cables	Solarlock
Backsheet colour	Black or white, other colours on request

V/I Curve



Voltage (V)

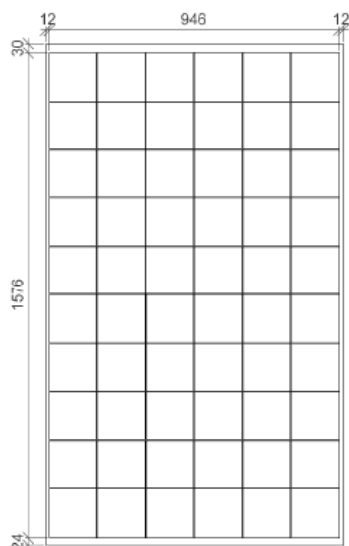
Certifications

IEC 61215
IEC 61730

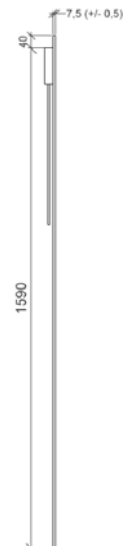
Warranty

10 years on 90 % of Pmax
25 years on 80 % of Pmax
5 years product guarantee

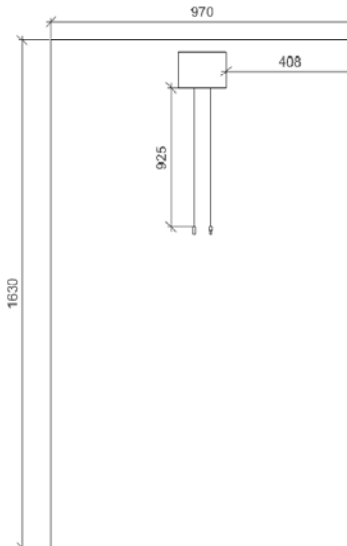
Front side



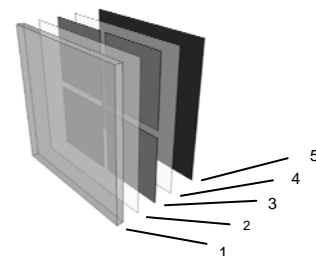
Side view



Backside



Design



- 1) Tempered glass
- 2) EVA (ethylene-vinyl acetate)
- 3) Polycrystalline Solar Cells
- 4) EVA (ethylene-vinyl acetate)
- 5) Back sheet (PVDF or PET)

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