



A high efficiency low carbon certified photovoltaic panel. Ideal for installations from 100 to 500kWp.

FLASH 410 Half-Cut Glass-Glass



OPTIMIZED PERFORMANCE

High performance monocrystalline cells Bifacial cell allowing up to 30% more power

WARRANTY

French manufacturer
25 year of product warranty
+5 years extension upon activation of warranties*



Performance guarantees on the photovoltaic yield of 30 years

* Conditions for activating guarantees on dualsun.com



QUALITY & SAFETY

CE marking
Improved hail resistance
Certified following IEC norms*
Salt mist corrosion test - IEC standard

* IEC 61215 & 61730 n°
IEC 61701 n°
IEC 62716 n°

AESTHETIC & EASY TO INSTALL

Sleek and attractive design
Mechanical resistance up to 6600 Pa
Compatible with all roof installation systems



INDUSTRY OF THE FUTURE LABEL

Photovoltaic cells laminated in Asia for an optimized value chain
Systematic audit of productions by third-party control office



IDEAL PANEL FOR ROOF TYPES:

RESIDENTIAL

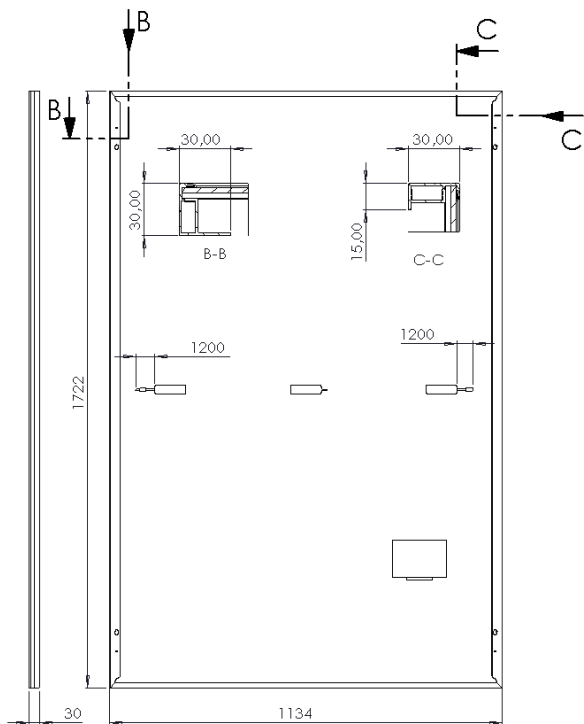


COMMERCIAL





Dimensions



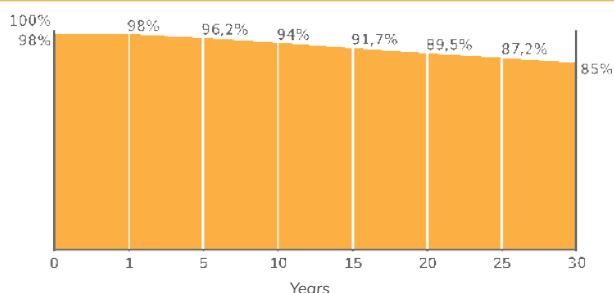
Physical characteristics

Dim (L x W x t)	1722 mm x 1134 mm x 30mm	
Weight	25,1 kg	
Number of cells	108 1/2	
Cell type	PERC Monocrystalline<	
Connectors	MC4 Original Stäubli	
Cable length	1200 / 1200 mm	
Junction box	IP67 - 3 diodes	
Maximum load	6600 Pa (Snow)	3600 Pa (Wind)
Frame / Backsheet	Black anodised aluminium / transparent	
ECS value	462 (PPE2) kg CO ₂ /kWc-e	
Glass thickness	2+2mm	
Bifaciality coef	70% ± 10%	

Operational characteristics

Temperature	-40°C to +85°C
Maximum system voltage	1500 VDC
Maximum reverse current	25 A
NMOT	42 +/- 3°C
Application class	Class II

Linear power output warranty



Photovoltaic characteristics

Nominal power	410 W
Output power tolerance	+/-5W
Module minimum guaranteed efficiency	21 %
Rated voltage (V_{mpp})	31,09 V
Rated current (I_{mpp})	13,20 A
Open circuit voltage (V_{oc})	37,33 V
Short-circuit current (I_{sc})	14,06 A

* STC conditions (AM 1.5 - 1000 W / m² - 25 ° C)
Measurement tolerance: +/- 3%

Find the installation instructions and mounting systems in our resource area:



Temperature coefficients

Voltage temperature coefficient (μV_{oc})	-0,269 %/K
Current temperature coefficient (μI_{sc})	0,063 %/K
Power temperature coefficient (μP_{mpp})	-0,335 %/K

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