

Perfect in association with hybrid SPRING panels

This photovoltaic panel offers reliable performance and optimized efficiency, combined with an elegant ultra black appearance particularly suited to photovoltaic and hybrid self-consumption projects.

FLASH[®] 425 Shingle Black



OPTIMIZED PERFORMANCE

High performance monocrystalline cells
Anti-reflective glass guarantees high performance even in diffuse light



AESTHETIC & EASY TO INSTALL

Sleek and attractive design
Mechanical resistance up to 5400 Pa
Compatible with all roof installation systems



QUALITY & SAFETY

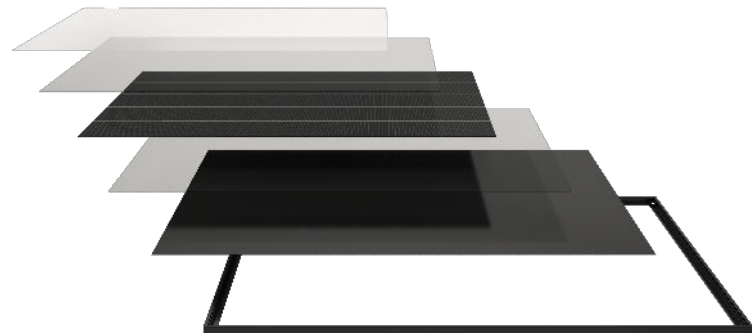
Excellent hail resistance (RG4)
Certified following IEC norms*
Salt mist corrosion test - IEC standard

* IEC 61215 & 61730 n°44 780 20 406749 - 219R1M2
IEC 61701 n°44 780 20 06749 - 242R1M1
IEC 62716 n°44 780 22 406 749 - 222

WARRANTY

25 year product warranty
+5 years extension upon activation of warranties*
30 year linear performance warranty on photovoltaic efficiency

* Conditions for activating guarantees on dualsun.com



RELIABILITY AND COMPETITIVENESS

The DualSun FLASH[®] photovoltaic panel is manufactured according to very strict specifications, and each production batch is systematically audited by a specialized third-party control office.



IDEAL PANEL FOR ROOF TYPES:

RESIDENTIAL



COMMERCIAL

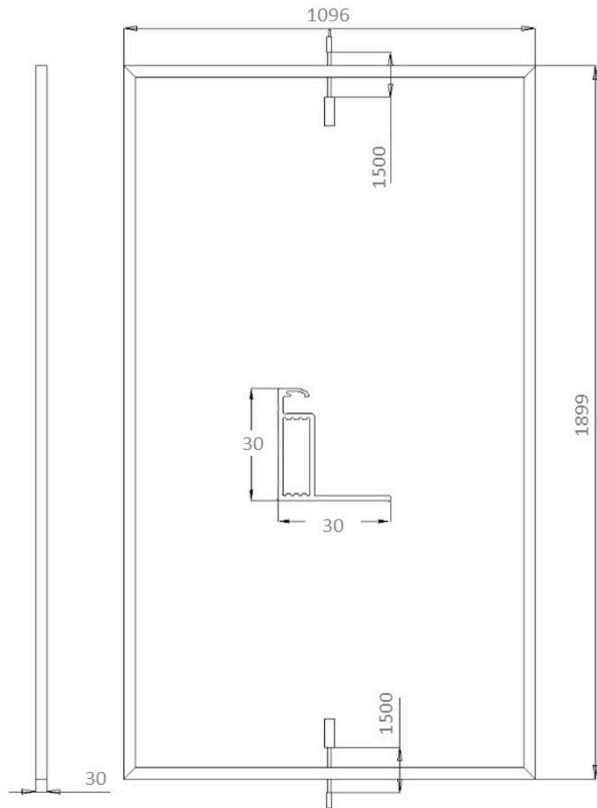


Designed in France: R&D center in Marseille

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



Dimensions



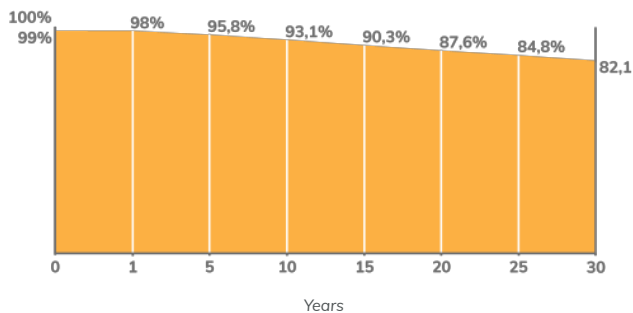
Physical characteristics

Dim (L x W x t)	1899 mm x 1096 mm x 30 mm	
Weight	21,8 kg	
Number of cells	320	
Cell type	PERC Monocrystalline<	
Connectors	MC4 Original Stäubli	
Cable length	1500 mm	
Junction box	IP67 - 2 diodes	
Maximum load	5400 Pa (Snow)	2400 Pa (Wind)
Frame / Backsheet	Black anodised aluminium / Black	
ECS value	497 kg CO ₂ /kWc-e	
Glass thickness	3,2mm	
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Operational characteristics

Temperature	-40°C / +85°C
Maximum system voltage	1500 VDC
Maximum reverse current	25 A
NMOT	45 +/- 2°C
Application class	II

Linear power output warranty



Photovoltaic characteristics

Nominal power	425 W
Output power tolerance	0/+3%
Module minimum guaranteed efficiency	20,4 %
Rated voltage (V_{mpp})	36,0 V
Rated current (I_{mpp})	11,81 A
Open circuit voltage (V_{oc})	43,4 V
Short-circuit current (I_{sc})	12,56 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})	-0,27 %/K
Current temperature coefficient (μI_{sc})	0,04 %/K
Power temperature coefficient (μP_{mpp})	-0,34 %/K