

Perfect in association with hybrid SPRING panels

The FLASH Shingle Black solar panel by DualSun is designed for self-consumption projects without compromising on aesthetics and performance in order to maintain all the elegance of the building

## FLASH<sup>®</sup> 425 Shingle Black



### OPTIMIZED PERFORMANCE

High performance monocrystalline cells  
Anti-reflective glass ensuring high performance even in diffused light



### AESTHETIC & EASY TO INSTALL

Sleek and attractive design  
Mechanical load up to 5400 (0.957 PSI)  
Compatible with all roof installation systems



### QUALITY & SAFETY

IEC 61215 & 61730 : 44 780 20 406749 - 219R1M2

CSA certificat (UL 61730) : 80150682

ICC-SRCC : Pending Validation



### INDUSTRY OF THE FUTURE LABEL

Engineered in France :

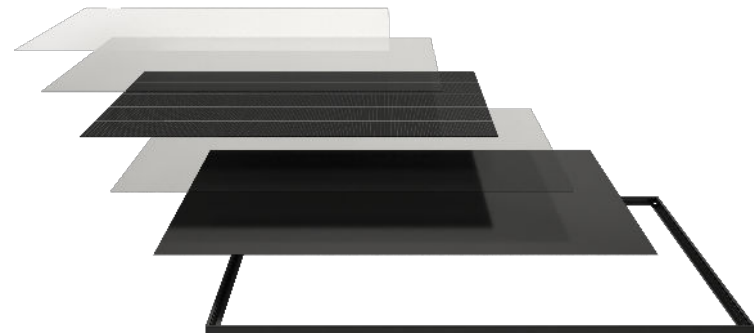
R&D center in Marseille

### WARRANTY

20 year product warranty offered immediately  
+5 years warranty extension upon activation of warranties\*

30 year linear performance warranty on photovoltaic performance

\* Conditions for activating guarantees on [dualsun.com](https://dualsun.com)



### RELIABILITY AND COMPETITIVENESS

The DualSun FLASH<sup>®</sup> 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

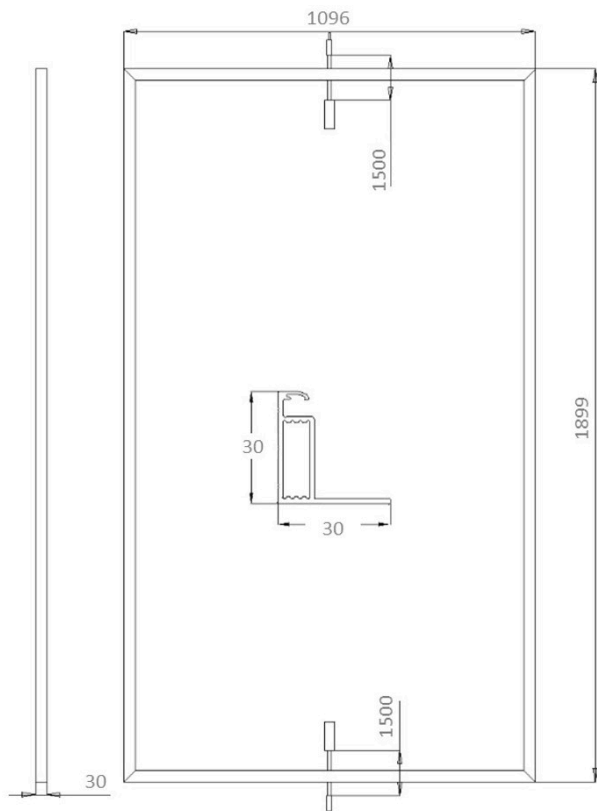


INDUSTRIAL





## Dimensions



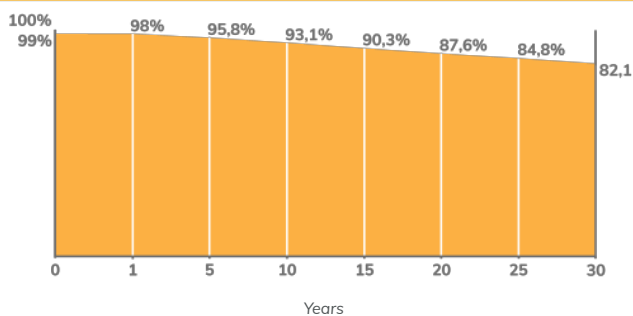
## Physical characteristics

Length	1899 mm (74,76 inch)
Width	1096 mm (43.15 inch)
Thickness	30 mm (1,18 inch)
Weight	21,8 kg (48.06 lbs)
Number of cells	320
Cell type	PERC Monocrystalline
Connectors	MC4 Original Stäubli
Cable length	1500 mm (59 inch)
Junction box	IP67 - 2 diodes
Maximum load	Snow: 0.957 PSI (5400 Pa) Wind: 0.522 PSI (2400 Pa)
Frame / Backsheet	Black anodised aluminium / Black

## Operational characteristics

Temperature	-40°C to +85°C (-40°F to 185°F)
Maximum system voltage	1500 VDC
Maximum reverse current	25 A
NMOT	45 +/- 2°C (113 +/- 35,6°F)
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/m<sup>2</sup> | 92,9 W/ft<sup>2</sup> - 25°C | 77°F)  
Measurement tolerance: +/- 3%

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



## Temperature coefficients

Voltage temperature coefficient ( $\mu V_{oc}$ )	-0,27 %/K
Current temperature coefficient ( $\mu I_{sc}$ )	0,04 %/K
Power temperature coefficient ( $\mu P_{mpp}$ )	-0,34 %/K