

A high efficiency photovoltaic panel, ideal for 100-500 kWp installations, certified low carbon

(<550 kg eq. CO2/kWp, ECS certificate CRE 4 no042-2021\_001).

## FLASH<sup>®</sup> 405 Half-Cut White



### OPTIMIZED PERFORMANCE

High performance monocrystalline cells  
White backsheet for better photovoltaic production

### WARRANTY

French manufacturer  
20 year product warranty offered immediately  
+5 year warranty extension upon activation of warranties\*  
25 year linear performance warranty on photovoltaic performance



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



### QUALITY & SAFETY

CE marking  
Certification according to IEC standards\*  
Salt mist corrosion test - IEC standard

\* IEC 61215 & 61730 n°Z2 103216 0008 Rev.00  
IEC 61701 n°Z2 103216 0009 Rev.00 (salt mist)  
IEC 62716 n°Z2 103216 0010 Rev.00

### AESTHETIC & EASY TO INSTALL

Mechanical resistance up to 5400 Pa  
Certified compatibility with most roof mounting systems



### INDUSTRY OF THE FUTURE LABEL

Engineered in France :  
R&D center in Marseille

### IDEAL PANEL FOR ROOF TYPES:

COMMERCIAL



INDUSTRIAL

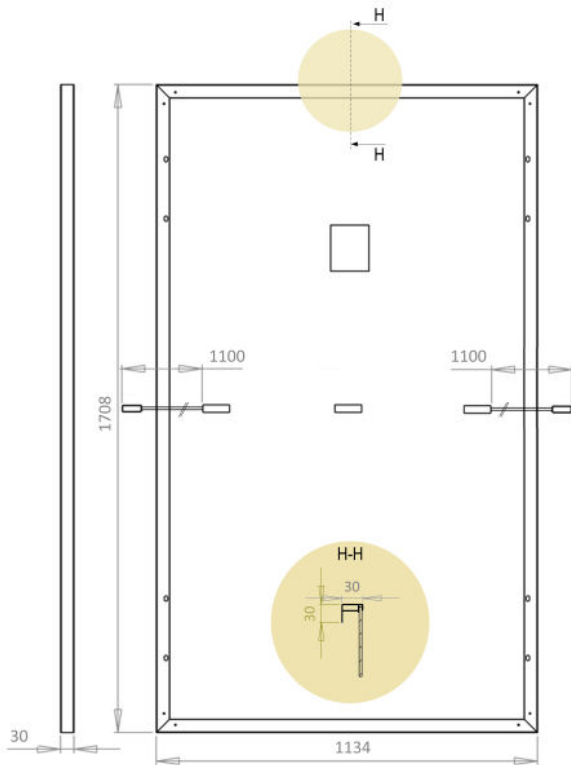


AGRICULTURAL





## Dimensions



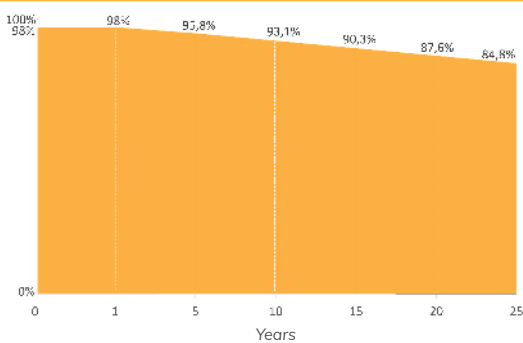
## Physical characteristics

Length	1708 mm
Width	1134 mm
Thickness	30 mm
Weight	20 kg
Number of cells	108 1/2
Cell type	PERC Monocrystalline
Connectors	MC4 / MC4 compatible
Cable length	1100 / 1100 mm
Junction box	IP67 - 3 diodes
Maximum load	5400 Pa (snow) / 2400 Pa (wind)
Frame / Backsheet	Black anodised aluminium / White

## 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	405 W
Output power tolerance	0 / +3%
Module efficiency	20,91%
Rated voltage ( $V_{mpp}$ )	30,52 V
Rated current ( $I_{mpp}$ )	13,28 A
Open circuit voltage ( $V_{oc}$ )	37,33 V
Short-circuit current ( $I_{sc}$ )	13,68 A

\* STC conditions (AM 1.5 - 1000 W / m<sup>2</sup> - 25 °C)  
Measurement tolerance: +/- 3%

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



## Temperature coefficients

Voltage temperature coefficient ( $\mu V_{oc}$ )	-0,246 %/°K
Current temperature coefficient ( $\mu I_{sc}$ )	0,0448 %/°K
Power temperature coefficient ( $\mu P_{mpp}$ )	-0,33 %/°K

v1.4 – June 2022  
DS405-108M10-02