

DualSun's FLASH Half-Cut Black solar panel is designed for self-consumption projects without compromising on aesthetics in order to maintain all the elegance of the building. A high efficiency, low carbon photovoltaic panel.

## FLASH<sup>®</sup> 500 Half-Cut Black



### OPTIMIZED PERFORMANCE

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

### WARRANTY

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

Performance guarantees on the photovoltaic yield of 25 years

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



### AESTHETIC & EASY TO INSTALL

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



### QUALITY & SAFETY

CE marking  
Certified following IEC norms\*  
Salt mist corrosion test - IEC standard

\* IEC 61215 & 61730 n°Z2 103216 004 Rev.01  
IEC 61701 n°Z2 103216 0009 Rev.00  
IEC 62716 n°Z2 103216 0010 Rev.00

### 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

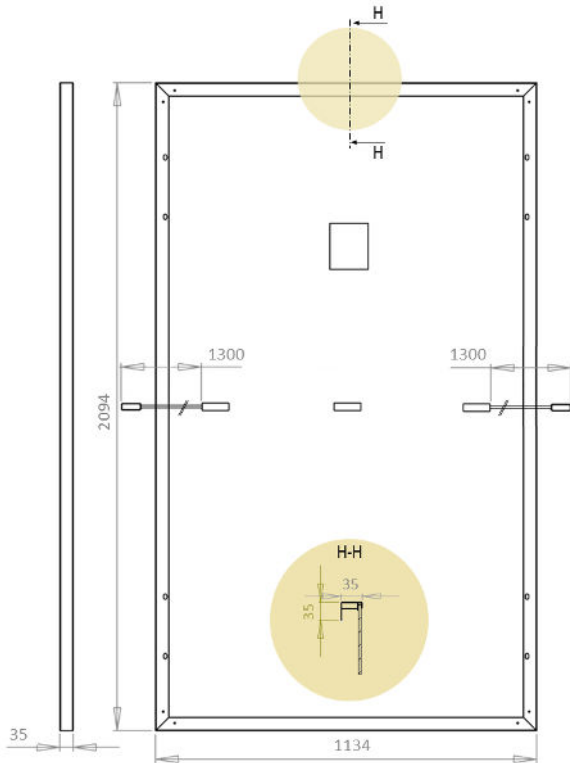


INDUSTRIAL





## Dimensions



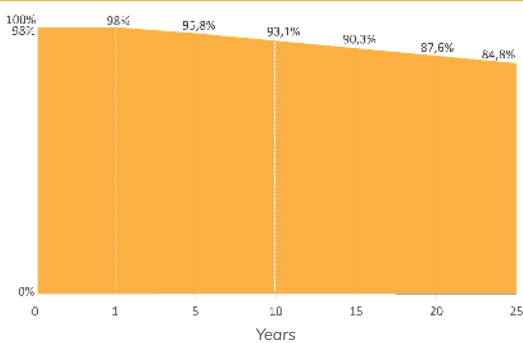
## Physical characteristics

Dim (L x W x t)	2094 mm x 1134 mm x 35 mm	
Weight	26,0 kg	
Number of cells	132 1/2	
Cell type	PERC Monocrystalline<	
Connectors	MC4 Original Stäubli	
Cable length	1300 / 1300 mm	
Junction box	IP67 - 3 diodes	
Maximum load	5400 Pa (Snow)	2400 Pa (Wind)
Frame / Backsheet	Black anodised aluminium / Black	
ECS value	510 kg CO <sub>2</sub> /kWc-e	
Glass thickness	3,2mm	

## Operational characteristics

Temperature	-40°C / +85°C
Maximum system voltage	1500 VDC
Maximum reverse current	20 A
NMOT	45 +/- 2°C
Application class	II

## Linear power output warranty



## Photovoltaic characteristics

Nominal power	500 W
Output power tolerance	+/-3%
Module minimum guaranteed efficiency	20,8 %
Rated voltage ( $V_{mpp}$ )	37,84 V
Rated current ( $I_{mpp}$ )	13,22 A
Open circuit voltage ( $V_{oc}$ )	45,6 V
Short-circuit current ( $I_{sc}$ )	14,07 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 ( $\mu V_{oc}$ )	-0,28 %/K
Current temperature coefficient ( $\mu I_{sc}$ )	0,05 %/K
Power temperature coefficient ( $\mu P_{mpp}$ )	-0,36 %/K

v1.14- – October 2023  
DS500-132M10-01