



DualSun offers 100% low carbon panels. To make solar energy the best solution to reduce carbon footprint of the buildings. Competitiveness and reliability on Major Projects.

FLASH 415 Half-Cut White



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



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 0008 Rev.02
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 :

COMMERCIAL

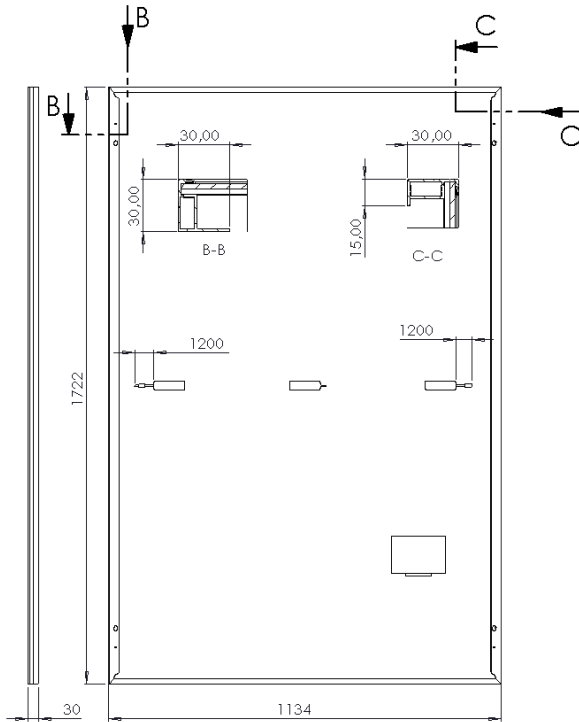


INDUSTRIAL





Dimensions



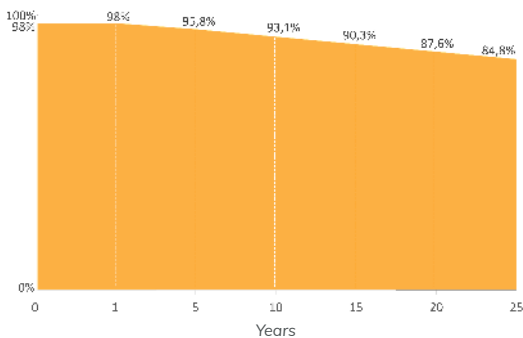
Physical characteristics

Dim (L x W x t)	1722 mm x 1134 mm x 30 mm	
Weight	20 kg	
Number of cells	108 1/2	
Cell type	PERC Monocrystalline<	
Connectors	MC4 Original Stäubli	
Cable length	1200/1200 mm	
Junction box	IP68 - 3 diodes	
Maximum load	5400 Pa (Snow)	2400 Pa (Wind)
Frame / Backsheet	Black anodised aluminium / White	
ECS value	502.8 (PPE2) kg CO ₂ /kWc-e	
Glass thickness	2,8mm	

Operational characteristics

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

Linear power output warranty



Photovoltaic characteristics

Nominal power	415 W
Output power tolerance	0/+3%
Module minimum guaranteed efficiency	21,3 %
Rated voltage (V_{mpp})	31,27 V
Rated current (I_{mpp})	13,29 A
Open circuit voltage (V_{oc})	37,45 V
Short-circuit current (I_{sc})	14,13 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})	-0,246 %/K
Current temperature coefficient (μI_{sc})	0,0448 %/K
Power temperature coefficient (μP_{mpp})	-0,33 %/K

V1.4- – November 2023
DS415-108M10-02