

Perfect in association with hybrid SPRING® panels

The FLASH® 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® 320 Black



OPTIMIZED PERFORMANCE

High performance monocrystalline cells
Positive classification -0/+5 Wp
Anti-reflective glass ensuring high performance even in diffused light

WARRANTY

French manufacturer
25-year linear power output warranty
20 years product warranty, 25 years in option*
(product and labour)

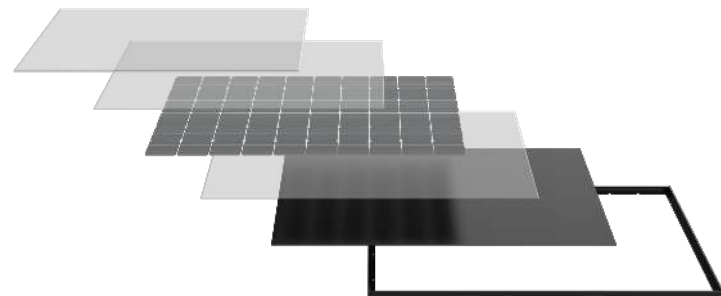


* Please refer to DualSun Premium Warranty Terms



AESTHETIC & EASY TO INSTALL

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



QUALITY & SAFETY

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

* IEC 61215 & 61730 n°Z2 103216 0006 Rev.01
IEC 61701 n°Z2 103216 0007 Rev.00 (salt mist)
UL1703 n°80035968, CEC listed

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.



INDUSTRY OF THE FUTURE LABEL

Engineered in France :
R&D center in Marseille

IDEAL PANEL FOR ROOF TYPES:

RESIDENTIAL



COMMERCIAL



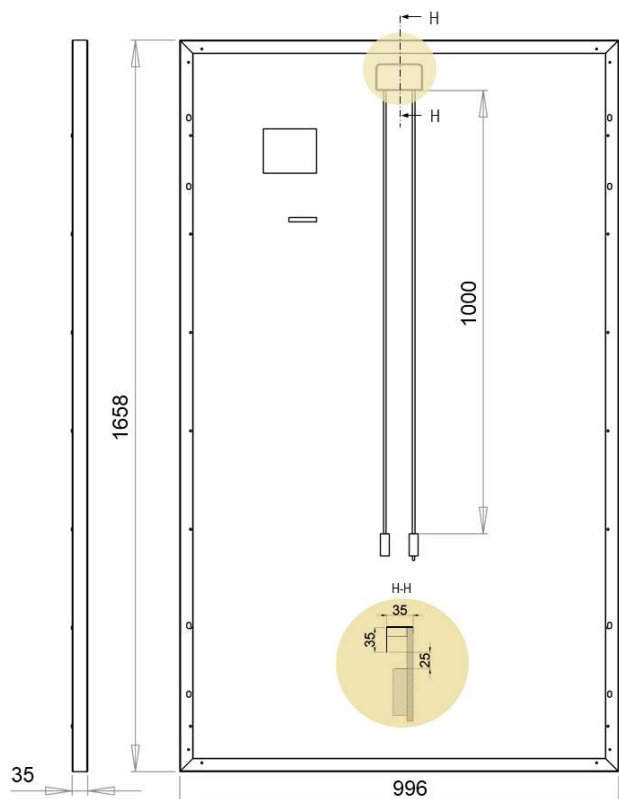
INDUSTRIAL



Recyclable panel



Dimensions



Physical characteristics

Length	1658 mm
Width	996 mm
Thickness	35 mm
Weight	19,5 kg
Number of cells	60
Cell type	PERC Monocrystalline
Connectors	MC4 / MC4 compatible
Cable length	900 mm
Junction box	IP67 - 3 diodes
Maximum load	5400 Pa (snow) / 2400 Pa (wind)
Frame / Backsheet	Black anodised aluminium / Black

Operational characteristics

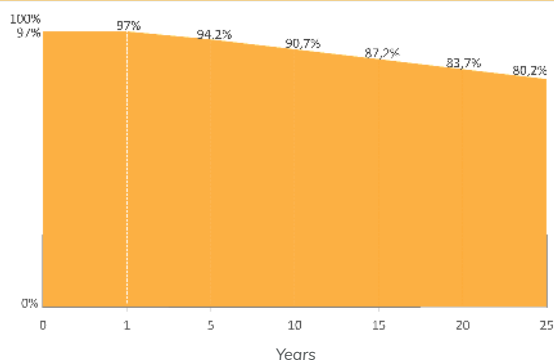
Temperature	-40°C to +85°C
Maximum system voltage	1000 VDC
Maximum reverse current	20 A
NMOT	45 +/- 2°C
Application class	Class II

Photovoltaic characteristics

Nominal power	320 W
Output power tolerance	0 / +5W
Module efficiency	19,38 %
Rated voltage (V_{mpp})	33,13 V
Rated current (I_{mpp})	9,66 A
Open circuit voltage (V_{oc})	40,43 V
Short-circuit current (I_{sc})	10,19 A

* STC conditions (AM 1.5 - 1000 W / m² - 25 ° C)
Measurement tolerance: +/- 3%

Linear power output warranty



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



Temperature coefficients

Voltage temperature coefficient (μV_{oc})	-0,29 %/°K
Current temperature coefficient (μI_{sc})	0,05 %/°K
Power temperature coefficient (μP_{mpp})	-0,36 %/°K