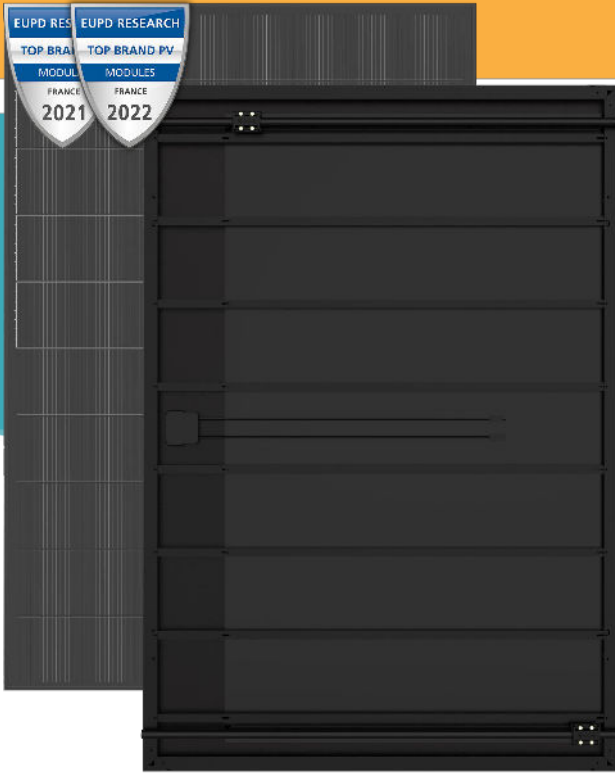


SPRING hybrid solar panel (PVT)[®] designed and manufactured in France (certified Made in France), produces both electricity and hot water.

SPRING[®] 375 Shingle Black



PHOTOVOLTAIC FRONT FACE

High performance monocrystalline cells cooled by water circulation
Anti-reflective glass ensuring high performance even in diffused light
Positive classification -0 / + 3%

THERMAL REAR FACE

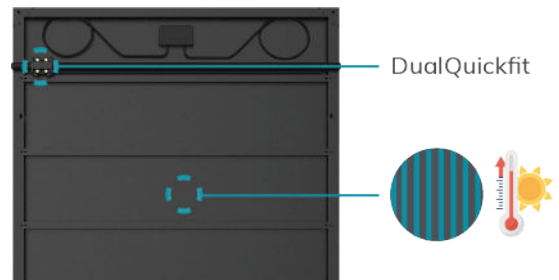
Hot water production thanks to an ultra-thin patented heat exchanger completely integrated into the panel
DualBoost[®] : Photovoltaic efficiency boost by cooling cells



WARRANTY

French manufacturer
10 year product warranty, starting from the activation of the warranty*
25 year linear performance warranty on photovoltaic performance

* Warranty activation conditions on dualsun.com



QUALITY & SAFETY

- IEC 61215 & 61730 n°16828 Rev.0
- SOLAR KEYMARK n°16826 + n°16827 Rev.2
- CSA certificat (UL 61730) : n°80150682
- ICC-SRCC : Pending validation



DUALQUICKFIT[®]

Patented Plug & Play hydraulic connection system for faster and more reliable installation of the SPRING[®] panel



INDUSTRY OF THE FUTURE LABEL

Made in France (certificate FR-IMF-2022-293/294):

DIN EN ISO 9001: 2015 certified factory



COMPATIBLE PANEL FOR APPLICATIONS:

DHW



HP

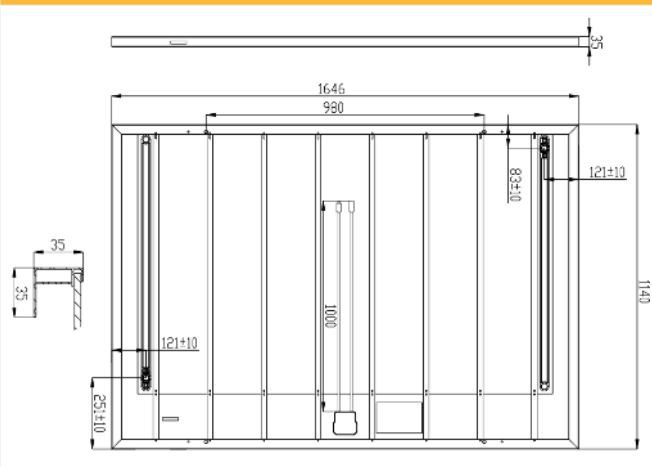


POOL





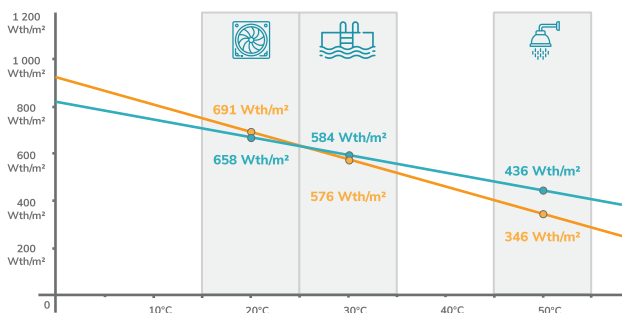
Dimensions



Physical characteristics

Length	64,8 inch (1646 mm)	
Width	44,88 inch (1140 mm)	
Thickness	1,38 inch (35 mm)	
	Non insulated	Insulated
Empty / full weight	(57,98 / 69 lbs)	(59,74 / 70,76 lbs)
Number of cells	360	
Cell type	PERC Monocrystalline	
Connectors	MC4 Original Stäubli	
Cable length	1000 mm (39,37 inch)	
Maximum load	Snow: 0,783 PSI (5400 Pa) Wind: 0,348 PSI (2400 Pa)	
Frame / Backsheet	Black anodised aluminium / Black	

Thermal power output per panel as a function of the temperature of the water in the panel and by application



Performances derived from the values a_0 , a_1 (wind $u=1m/s$) under STC conditions ($T = 25^{\circ}C$ | $77^{\circ}F$, $G = 1000 W/m^2$ | $92.9 W/ft^2$)

Photovoltaic characteristics

Nominal power	375 W
Photovoltaic yield at 25 years	84,8%
Output power tolerance	0 / +3%
Module minimum guaranteed efficiency	20.80 %
Rated voltage (V_{mpp})	40,40 V
Rated current (I_{mpp})	9,28 A
Open circuit voltage (V_{oc})	48,90 V
Short-circuit current (I_{sc})	9,89 A
Voltage temperature coefficient (μV_{oc})	-0,27 %/°K
Current temperature coefficient (μI_{sc})	0,04 %/°K
Power temperature coefficient (μP_{mpp})	-0,34 %/°K
Maximum system voltage	1500 VDC
Maximum reverse current	20 A
NMOT	(108,1 +/-35,6°F)
Application class	Classe II

* STC Conditions (AM 1,5 – 1000 W/m² | 92,9 W/ft² - 25°C | 77°F)
Measurement tolerance: +/- 3%

Thermal characteristics

Thermal power	660 W _{th} /m ² 209 Btu/ft ² *	1238 W _{th} /panel
Collector area	20,2 ft ² (1,876 m ²)	
Heat exchanger volume	1,32 gal (5 L)	
Max operating pressure	21,7 PSI (1,5 bar)	
Pressure drop	Portrait	Landscape
inch H ₂ O	at 60 L/h 0,75 (19)	45 (1,77)
(mm H ₂ O)	at 100 L/h 47 (1,85)	3,86 (98)
	Non insulated	Insulated
Stagnation temperature	176°F (80°C)	194°F (90°C)
Optical efficiency a_0	63,3 %**	62,1 %**
Coefficient a_1	11,5 W/K/m ² **	7,4 W/K/m ² **
Coefficient a_2	0 W/(m ² .K ²)**	0 W/(m ² .K ²)**

* Calculated with wind speed $u = 0 m/s$, $DT = 0$, $G = 1000 W/m^2$

** The coefficients a_0 , a_1 and a_2 result from EN 9806: 2017 certification tests for solar collectors without glazing carried out by KIWA for a wind speed $u = 1 m/s$: $a_0 = \eta_0 - \nu s_6^* u'$; $a_1 = c_1 + c_3^* u'$; $u' = u - 3$

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



DSTI375G1-360SBB5 / DSTN375G1-360SBB5 - v1.6 - May 2023