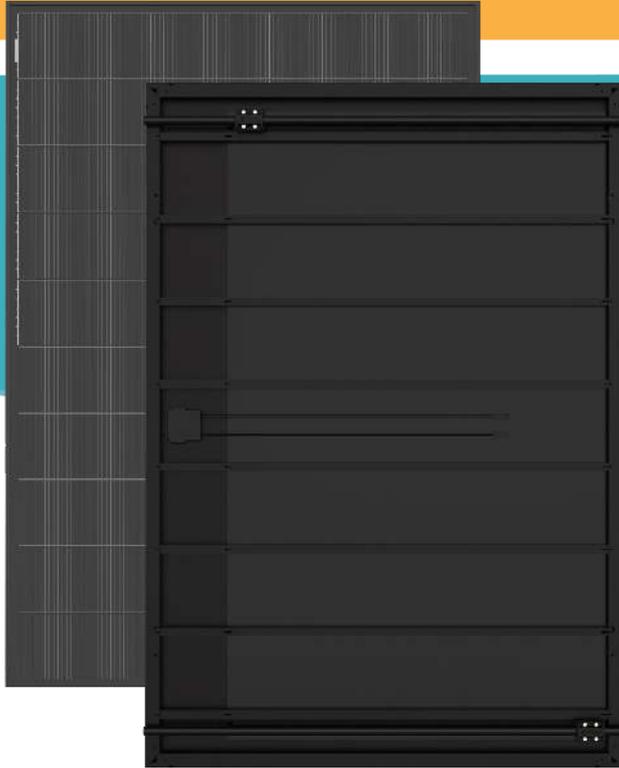


SPRING hybrid solar panel (PVT)[®] designed and manufactured in France (certified Made in France), produces both electricity and hot water

SPRING[®] 375 Shingle Black



PHOTOVOLTAIC FRONT FACE



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

THERMAL REAR FACE

Hot water production thanks to an ultra-thin patented heat exchanger completely integrated into the panel



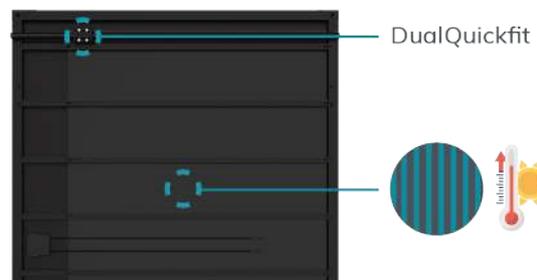
DualBoost[®] : Photovoltaic efficiency boost by cooling cells

WARRANTY



Product and labor warranty* 10 years
25-year linear power output warranty

* Refer to the DualSun warranty conditions



QUALITY & SAFETY



- CE marking
- IEC 61215 & 61730 in progress
- SOLARK KEYMARK in progress
- CEC listed / UL 1703 in progress / ICC-SRCC in progress

DUALQUICKFIT[®]

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



INDUSTRY OF THE FUTURE LABEL

Engineered in France :
R&D center in Marseille

Made in France (certificate FR-IMF-2019-198):
DIN EN ISO 9001: 2015 certified factory in Jujurieux



COMPATIBLE PANEL FOR APPLICATIONS:

DHW



HP

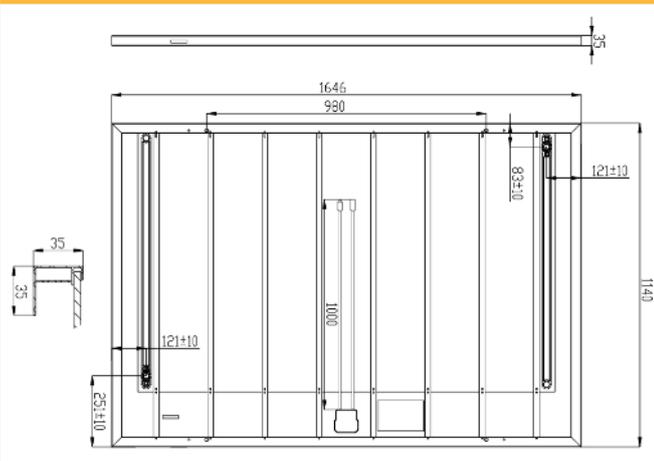


POOL





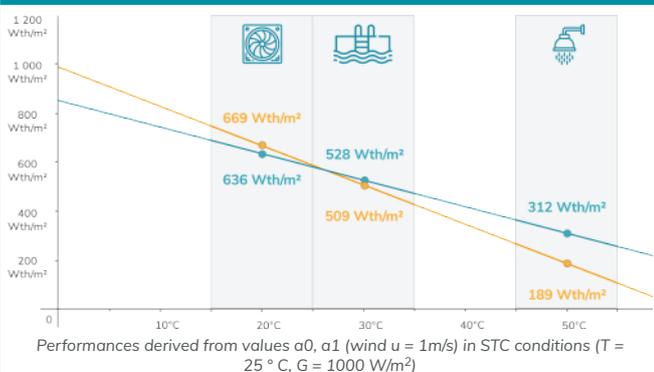
Dimensions



Physical characteristics

Length	1646 mm	
Width	1140 mm	
Thickness	35 mm	
	Non insulated	Insulated
Empty / full weight	26,3 / 31,3 kg	27,1 / 32,1 kg
Number of cells	360	
Cell type	PERC Monocrystalline	
Connectors	MC4 EVO2 original	
Cable length	1000 mm	
Maximum load	5400 Pa (snow) / 2400 Pa (wind)	
Frame / Backsheet	Black anodised aluminium / Black	

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



Photovoltaic characteristics

Nominal power	375 W
Output power tolerance	0 / +5W
PV module efficiency	20 %
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	42,3 +/- 2°C
Application class	Class II

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

Thermal characteristics

Thermal power	629 W _{th} /m ² *	
Gross area	1,876 m ²	
Heat transfer liquid volume	5 L	
Max operating pressure	1,5 bar	
Pressure drop	Portrait	Landscape
(Pa mmH2O)	at 32 L/h 59 6	167 17
	at 100 L/h 461 47	961 98
Hydraulic inlet / outlet	DualQuickft® fitting	
	Non insulated	Insulated
Stagnation temperature	70°C	75,6°C
Optical efficiency a_0	58,9 %**	58,2 %**
Coefficient a_1	16,0 W/K/m ² **	10,8 W/K/m ² **
Coefficient a_2	0 W/(m ² .K ²)**	0 W/(m ² .K ²)**

* Thermal power calculated with wind $u = 0 \text{ m/s}$, $DT = 0$, $G = 1000 \text{ W/m}^2$

** 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 $u = 1 \text{ m/s}$: $a_0 = n_0 - vs_6^* u$; $a_1 = c_1 + c_3^* u$; $a_2 = u - 3$

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

