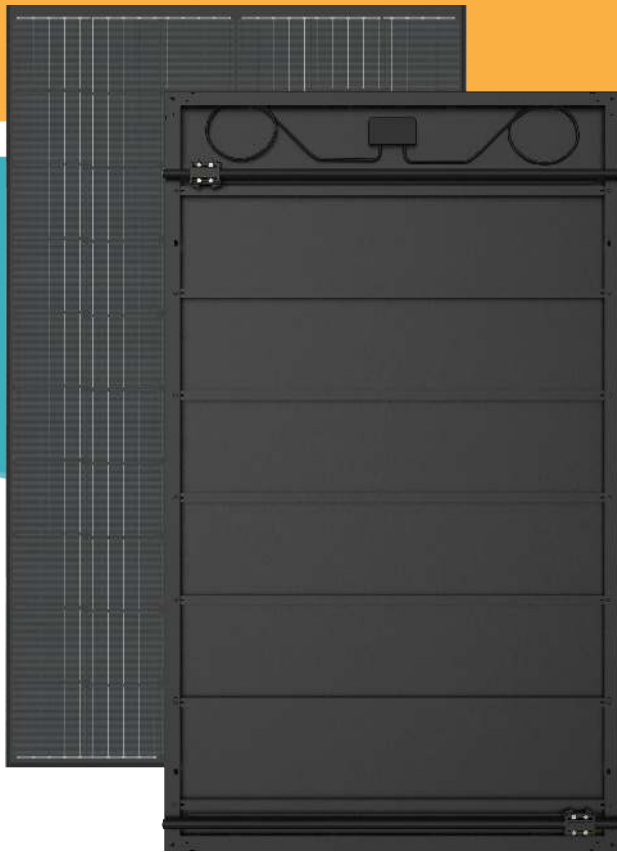


SPRING hybrid solar panel (PVT)[®] designed and manufactured in France (certified Made in France), produces both electricity and hot water

SPRING[®] 300 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



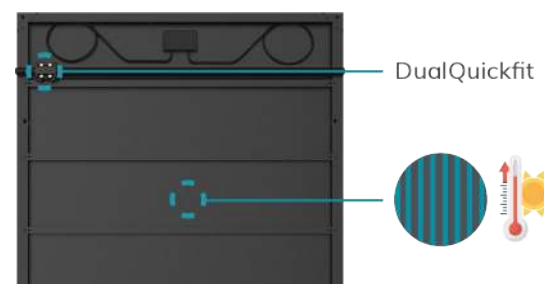
DualBoost[®] : Photovoltaic efficiency boost by cooling cells

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 n°16429 Rev.2
- SOLARK KEYMARK n°16458 + n°16459 Rev.2
- CEC listed / UL 1703 n°702139 / ICC-SRCC n°10002099

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

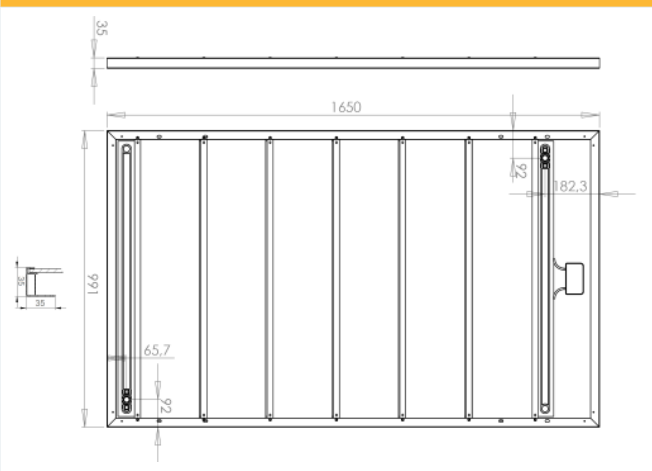


POOL





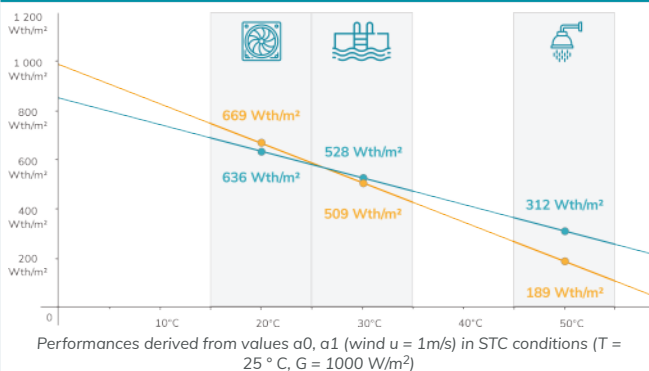
Dimensions



Physical characteristics

Length	1650 mm	
Width	991 mm	
Thickness	35 mm	
	Non insulated	Insulated
Empty / full weight	24,3 / 29,3 kg	25,1 / 30,1 kg
Number of cells	60	
Cell type	PERC Monocrystalline	
Connectors	MC4 / MC4 compatible	
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	300 W
Output power tolerance	0 / +5W
PV module efficiency	18,3 %
Rated voltage (V_{mpp})	32,6 V
Rated current (I_{mpp})	9,19 A
Open circuit voltage (V_{oc})	39,9 V
Short-circuit current (I_{sc})	9,77 A
Voltage temperature coefficient (μV_{oc})	-0,29 %/°K
Current temperature coefficient (μI_{sc})	0,05 %/°K
Power temperature coefficient (μP_{mpp})	-0,39 %/°K
Maximum system voltage	1000 VDC
Maximum reverse current	20 A
NMOT	45 +/- 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	1,635 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	DualQuickfit® 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 $u = 1 \text{ m/s}$: $a_0 = n_0 - v_{s6} * u$; $a_1 = c_1 + c_3 * u$; $u' = u - 3$

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

