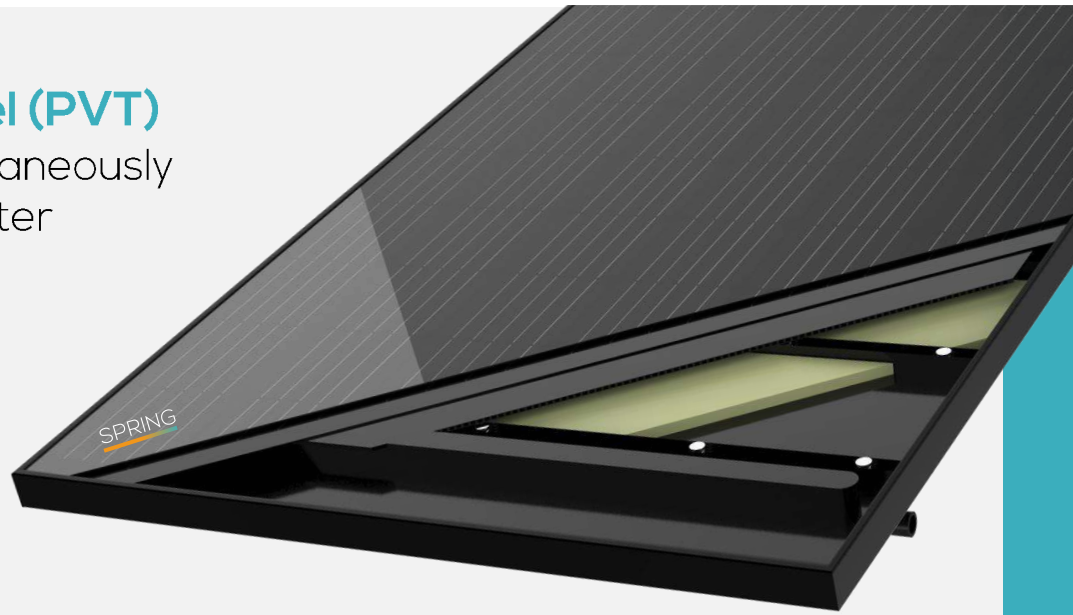


A hybrid solar panel (PVT)
that generates simultaneously
electricity and hot water



PHOTOVOLTAIC

High-efficiency monocrystalline cells,
cooled by water circulation on backside of panel

Anti-reflective glass ensuring high
performance even in diffuse light

Positive classification -0 / + 5 Wp
Nominal PV power : 310 Wp

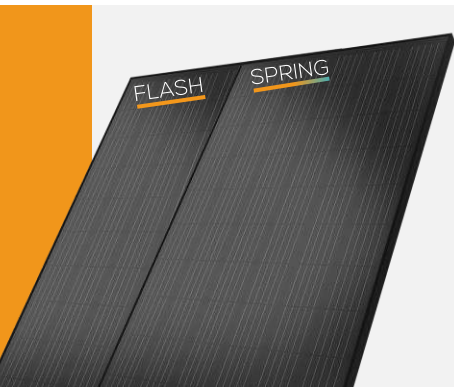
THERMAL

Ultra-thin heat exchanger, completely integrated into
panel (DualHeat® patented design)

Excellent heat transfer between photovoltaic frontside
and water circulation on backside, for an increased
photovoltaic efficiency (DualBoost® effect)

Thermal power output : 632 W/m² *

* Performances measured during Solar Keymark certification



Same elegant and attractive design

Same electrical characteristics

Compatible with the roof mounting systems of the most distributed brands

List of the compatible mounting systems available on DualSun website -
Professional Area

Portrait and landscape installation

Mechanical load up to 5,400 Pa



25 years linear PV power warranty
10 year product and labour costs warranty**

**Please refer to Premium DualSun Warranty Terms

Spring Non-Insulated : DualSun – 300-310M – 60 – 3BBPN
Spring Insulated : DualSun – 300-310M – 60 – 3BBPI



TECHNICAL DATA

GENERAL DATA

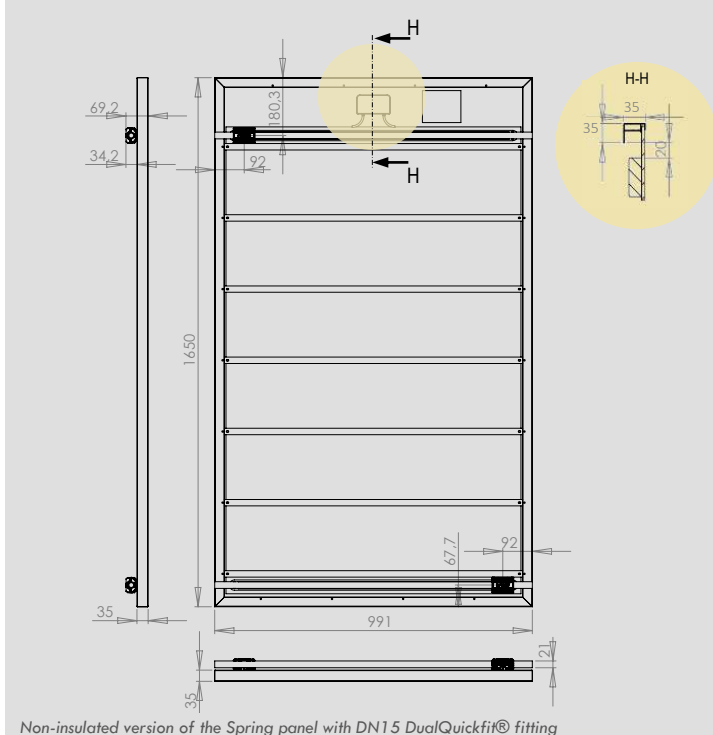
Length	1650 mm	
Width	991 mm	
Frame width	35 mm	
Frame color / Backsheet	Black / Black	
Maximum load	5400 Pa (snow) / 2400 Pa (wind)	
Weight empty / filled	Spring NI*	Spring I*
	24,3 / 29,3 kg	25,1 / 30,1 kg

* NI = Non-Insulated, I = Insulated

PHOTOVOLTAIC DATA

Number of cells per module	60	
Cell type	PERC Monocrystalline	
Nominal power (P_{mpp})	300 Wp	310 Wp
Module efficiency	18,3 %	19,1 %
Rated voltage (V_{mpp})	32,6 V	33,2 V
Rated current (I_{mpp})	9,19 A	9,31 A
Open circuit voltage (V_{oc})	39,9 V	40,3 V
Short circuit current (I_{sc})	9,77 A	9,88 A
Power output tolerance	0 / +5W	
Maximum system voltage	1000 V DC	
Reverse current load	20 A	
NOCT	45 ± 2°C	
Connectors	MC4 / MC4 compatible	
Application class	Classe II	
Voltage temperature coefficient (μV_{oc})	-0,29 %/°C	
Current temperature coefficient (μI_{sc})	0,05 %/°C	
Power temperature coefficient (μP_{mpp})	-0,39 %/°C	

Power measurement tolerance : +/- 3%



THERMAL DATA

Gross area	1,635 m ²	
Volume of heat transfer liquid	5 L	
Maximum operating pressure	1,5 bar	
Pressure loss per panel (Pa mmWS)	Portrait	Landscape
	59 6	167 17
Hydraulic input/output	DualQuickfit® fittings	
	Non-Insulated	Insulated
Maximum temperature	70 °C	75,6 °C
Optical efficiency α_0	58,9 % *	58,2 % *
Heat loss coefficient α_1	16,0 W/K/m ² *	10,8 W/K/m ² *
Heat loss coefficient α_2	0 W/(m ² ,K ²) *	

* The α_0 , α_1 et α_2 coefficients are the measured values from testing during EN 9806:2017 certification at KIWA for unglazed collectors with a windspeed $u = 1 \text{ m/s}$: $\alpha_0 = n_0 - c_6 * u'$; $\alpha_1 = c_1 + c_3 * u'$; $u' = u - 3$.

Power output as a function of the temperature of the water in the panel (by application)

Power values are calculated using α_0 and α_1 coefficients (windspeed=1m/s) in STC conditions (Text = 25°C, G = 1000 W/m²)

