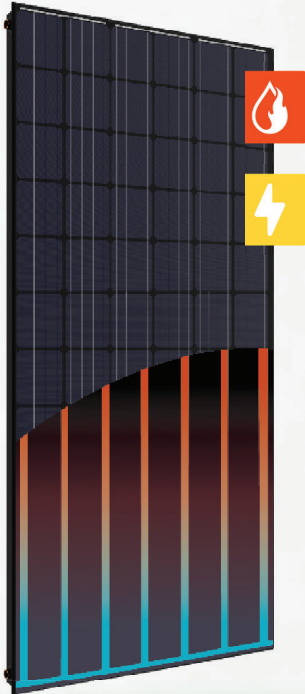




TECHNICAL SHEET

HYBRID SOLAR PANEL



The second-generation hybrid solar panel (PVT) manufactured by Abora Solar is the ultimate solution for producing domestic hot water and electricity simultaneously. Thanks to the innovative aHTech® technology developed by Abora, this panel offers exceptional performance, maximising the absorption of solar radiation.

The copper absorber, with its lattice-like tube network, allows efficient circulation of the heat transfer medium, transferring heat in an optimal way. On the other hand, the 72-cell photovoltaic laminate generates electricity in parallel with the production of thermal energy.

The transparent insulating cover and the metal case with rock wool insulation ensure that heat losses are minimised, which results in a higher energy efficiency of the panel. In addition, the possibility of interconnecting up to 10 PVTs in parallel, by means of quick and airtight connections, facilitates installation and adaptation to different needs.

Invest in the future of renewable energy with Abora Solar's hybrid solar panel, the most advanced and efficient solution for generating hot water and electricity simultaneously in your building.

ADVANTAGES



Space
optimisation



Tightness
and stability



Improved
performance



Easy mounting



Fast connection



Double production

PRODUCT FEATURES

WARRANTIES AND COMPATIBILITY

- 10-year guarantee.
- Compatible with auxiliary systems: heat pumps, biomass boilers and gas boilers



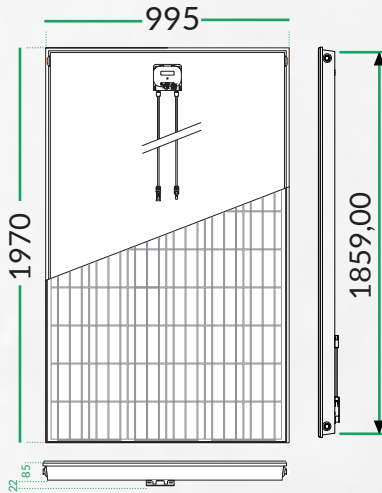
We manufacture all our
panels at our factory in
Zaragoza.

CERTIFICATIONS



- Conform to product standards :
- DIN EN 12975-1:2011-01; DIN EN ISO 9806:2018-04
- SolarKeymark Schema Rules (2021-07)
- DIN EN IEC 61730-1,-2:2018-10; EN IEC 61732:2018+AC:2018; IEC 61730-1,-2:2016

Dimensions



General specifications

Length x width x thickness	1.970 x 995x (85+22) mm
Total area	1,96m ²
Opening area	1,88 m ²
Number of cells	72
Weight	50 kg
Front glass	3,2 mm. tempered
Framework	Aluminium
Connection box protection	IP65
Number of diodes	3 diodes
Dimensions of the cell	156 x 156 mm
Connection type PV / length cables	Solarlok PV4/ 1m

Electric specifications

Cell type	mono-crystalline
Rated power (W)	350W
Maximum power voltage (Vmpp)	39,18V
Maximum power current (Impp)	8,98A
Open circuit voltage (Voc)	48,82V
Short circuit current (Isc)	9,73A
Module efficiency (%)	17,8
Power tolerance (W)	+/- 4%
Maximum system voltage	DC 1000V(IEC)
Backsheet	Black
Temperature coefficient of Pmpp	-0,36%/°C
Temperature coefficient of Voc	-0,28%/°C
Temperature coefficient of Isc	+0,06%/°C
Maximum reverse current	15A
NOCT Temperature	45+/-2 °C

Standard test conditions STC: AM 1.5. irradiation 1000 W / m²
Cell temperature 25 C°

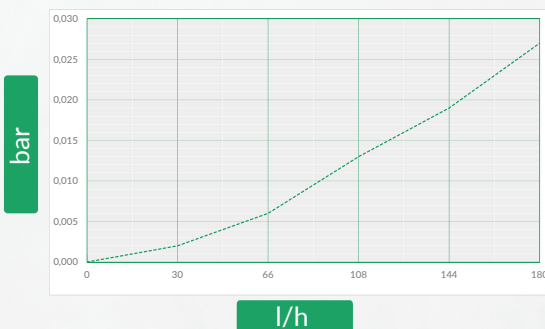
Thermal specifications

Optical performance	0,7
Coefficient of thermal losses, a1	5,98W/m ² .K ²
Coefficient of thermal losses, a2	0,00W/m ² .K ²
Internal liquid capacitance	1,78L
Stagnation temperature	126°C
Number of hydraulic connection	4 Conexions
Measure hydraulic connectios	Quick connection
Maximum permissible pressure	10bar
Nominal flow	60L/h

Standard test conditions STC: AM 1.5. irradiation 1000 W / m²
Cell temperature 25 C°

Head loss

Pressure drop: T^a max:20,13 °C/ T^a min: 19,39 °C



Yield curve

