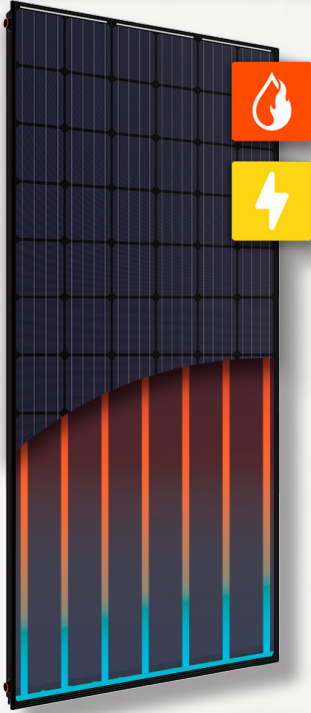




The second generation **M2 hybrid solar panel (PV/T)** manufactured by Abora is the ultimate solution for simultaneously producing hot water and electricity.

Thanks to the innovative aHTech® technology developed by Abora, this panel offers exceptional performance, maximising the absorption of solar radiation.

The internal copper absorber, featuring a precision engineered matrix of pipes promotes efficient circulation of the heat-transfer fluid and maximising thermal extraction. In parallel, the seventy-two cell photovoltaic panel simultaneously generates electricity with thermal production.

The front double-glazed insulating cover and rear metal housing, packed with rock wool insulation ensure that heat losses are minimised, resulting in higher energy efficiency of the panel. In addition, the possibility of inter-connecting up to 10x PV/T panels in parallel by means of the quick connections, facilitates fast installation times and flexible adaptation to different needs.

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

ADVANTAGES



Maximum Space
Optimisation



Flexible Use



Improved High
Performance



Compatibility



Low Maintenance



Heat and Electrical
Production

PRODUCT FEATURES

WARRANTIES AND COMPATIBILITY

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



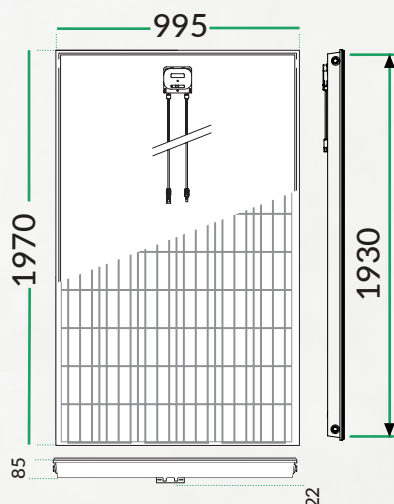
PV/T Panels Manufactured
entirely at our factory in
Zaragoza, Europe.

CERTIFICATIONS

Conform to product standards :

- DIN EN 12975:2022-6 ; DIN EN ISO 9806:2018-04
- SOLAR KEYMARK Scheme Rules SKN N0444R7 (2024-01)
- DIN EN IEC 61730-1,-2:2018-10; EN IEC 61732:2018+AC:2018; IEC 61730-1,-2:2016

Dimensions



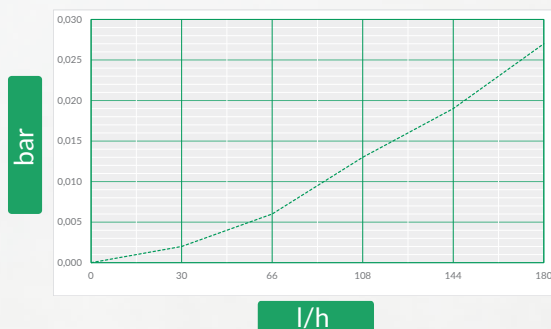
Electric specifications

Cell type	Mono-crystalline
Rated power (W)	350 W
Maximum Power Voltage (Vmpp)	39,18 V
Maximum Power Current (Impp)	8,98 A
Open Circuit Voltage (Voc)	48,82 V
Short Circuit Current (Isc)	9,73 A
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	15 A
NOCT Temperature	45+/- 2 °C

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



General specifications

Length x width x thickness	1.970 x 995 x (85+22) mm
Total area	1,96 m ²
Aperture area	1,88 m ²
Number of cells	72
Dry Weight	50 Kg
Front Glass	3,2 mm. tempered
Rear Housing Enclosure	Aluminium
Connection Box Protection	IP65
Number of Diodes	3 diodes
Cell Dimensions	156,75 x 156,75 mm (M2)
PV Connection Type / cable length	Solarlok PV4/ 1 m

Thermal specifications

Power output at dT = 0 K*	1373 W
Power output at dT = 10 K*	1256 W
Power output at dT = 40 K*	904 W
Optical performance	70,9%
Coefficient of Thermal Losses, a1	5,98 W/m ² .K
Coefficient of Thermal Losses, a2	0,00 W/m ² .K ²
Capacity	1,78 L
Stagnation Temperature	130°C
Hydraulic onnection	4 Conexions
Type Hydraulic Connection	Quick connection
Maximum permissible pressure	10 bar
Nominal flow	60 L/h
Incidence angle modifier IAM (50°)	0,95

Standard test conditions STC: AM 1.5, irradiation 1000 W / m²
Cell temperature 25 °C
* according DIN EN ISO 9806-2018-4

Yield curve

