

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



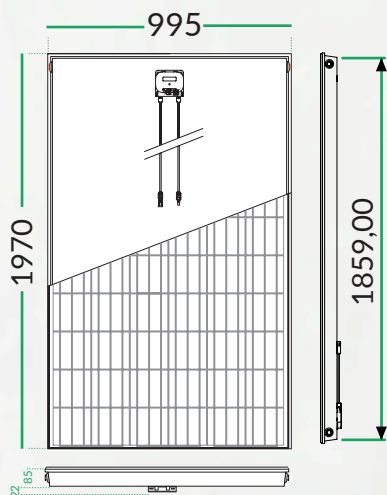
We manufacture all our panels at our factory in Zaragoza.

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°

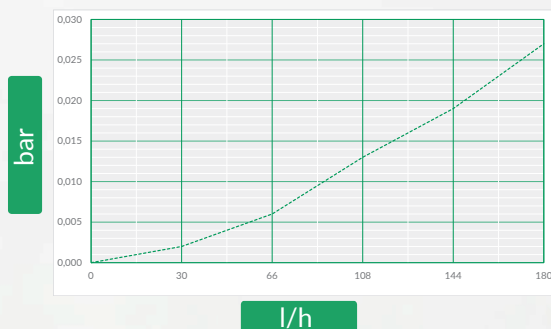
Thermal specifications

| | |
|-----------------------------------|--------------------------------------|
| 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

