

INAA

INSTALACIONES NATURALES ALTEA

HB600



SUSTAINABILITY



HIGH EFFICIENCY



COST SAVINGS

HYBRID SOLAR PANEL



600 W



1597 W

PVT-1. Space Optimization.

First-generation **hybrid** solar panel that combines a monocrystalline photovoltaic module and a solar thermal collector, **simultaneously producing electricity and heat.**



Plug&Play. Simplicity and Sustainability.

A simple energy solution, **easy to assemble**, install, and maintain. Designed to support the *Net Zero* strategy.



High Efficiency.

The cooling provided by the water circuit **improves photovoltaic performance by 17%.**

FEATURES



**Full
Black**

**Mono
PERC**



**SMART PRODUCTION
MONITORING**



COMPATIBILITIES AND HYBRIDIZATIONS:

- ELECTRIC WATER HEATERS
- GAS BOILERS
- BIOMASS BOILERS
- AEROTHERMAL SYSTEMS
- INDUSTRIES

QUALITY CERTIFICATIONS



TÜVRheinland®
DIN CERTCO



PRODUCT:

- Warranty: 12 years. Service life: 25 years.

FACTORY:

- ISO 9001: Quality Management Certification.
- ISO 14001: Environmental Management Certification.
- OHSAS 18001: Occupational Health and Safety Management Certification.

PHOTOVOLTAIC:

- IEC/EN 61215: Design qualification and type approval of photovoltaic modules for terrestrial use.
- IEC/EN 61730: Safety qualification of photovoltaic modules.

THERMAL:

- SOLAR KEYMARK: Quality certification for solar thermal energy products in Europe.

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GENERAL

PID Resistance

Wind load: 2400 Pa

Snow load: 5400 Pa

- Dimensions: 2172 x 1303 x 35 mm
- Weight: 38.5 kg
- Minimum tilt angle: 5°
- Maximum number of panels in series: 6 horizontal or vertical



ELECTRICAL

Power:	600 W (0/+3%)
Number of cells:	120 (6 x 20)
Cell type:	Monocrystalline PERC
Cell dimensions:	108 x 217 mm
Current at Pmax (Imp):	17,44 A
Voltage at Pmax (Vmp):	34,40 V
Short-circuit current (Isc):	18,52 A
Open-circuit voltage (Voc):	41,50 V
Efficiency:	21,20 %
Operating temperature:	-40°C~+85°C
Maximum system voltage:	1500VDC (IEC)
Series fuse rating:	30 A
Power tolerance:	0~+3%
Temperature coefficient (Pmax):	-0,35%/°C
Temperature coefficient (Voc):	-0,29%/°C
Temperature coefficient (Isc):	0,048%/°C
NOCT:	15+/-2°C
Application class:	Class A
Electrical connections:	TÜV 1 x 4.0 mm2



THERMAL

Power:	1597 W
Total gross area (Asol):	2,83 m2
• Optical efficiency (η0,b):	0,381
• Thermal loss coefficient a1:	4,491 W/m2·K
• Thermal loss coefficient a2:	0,082 W/m2·K
Aperture/absorption area (Aa):	2,69 m2
• Optical efficiency (η0,b):	0,395
• Thermal loss coefficient a1:	4,720
• Thermal loss coefficient a2:	0,086
Maximum operating pressure:	6 bar
Hydraulic connections:	1/2"
Volumetric flow rate:	0,078 l/s
Volumetric capacity:	1,6 L

APPLICATIONS



SAVINGS ON THE
ELECTRICITY BILL



DOMESTIC HOT
WATER



HOME HEATING



SWIMMING POOL
AND JACUZZI
HEATING



INDUSTRIAL
APPLICATIONS

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