



HYBRID MODULE THERMO-PHOTOVOLTAIC (TPV)

New



RA 36 HYBRID 855W of combined energy

Photovoltaic

- Module **180W**
- High efficiency monocrystalline cells cooled by coolant
- Enhanced life-span
- Hail resistant glass

Self-bearing roof

0,98 m²



Thermal

- Module **675W** in plants with H.P. (heat pump)
- Extruded aluminum collector
- Innovative thermal exchange system
- Water + coolant capacity **9,2 litres**
- **Water flow over 20 lt per min**

The new concept of hybrid energy module, specifically developed to increase electrical efficiency and use thermal energy to feed all sorts of applications.



Manufactured in Italy

Member of CISQ Federation



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P. IVA (VAT n°): IT-02431730759
Cap. Soc./Stock Capital: € 286.000,00
Reg. Soc. Trib. Lecce 13048
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TECHNICAL DATA

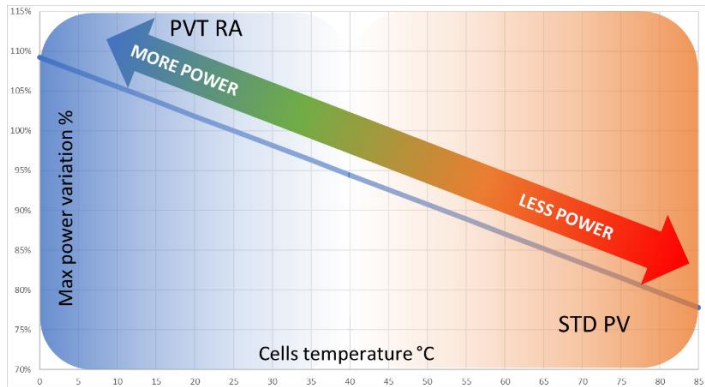
Electrical Specifications STC (Standard Test Conditions)
1.000 W/m² (25±2)°C AM 1,5 EN 60904-3

OVERALL

Lenght mm	2877
Height mm	325
Width mm	43
Inter-axis width mm	310
Weight Kg (full / empty)	34,9 / 25,7
Colour	Black
Power ratio (thermal/electrical)	3,75
Front tempered glass mm	4
Cell encapsulation	E.V.A.
Chassis	Aluminum 6063

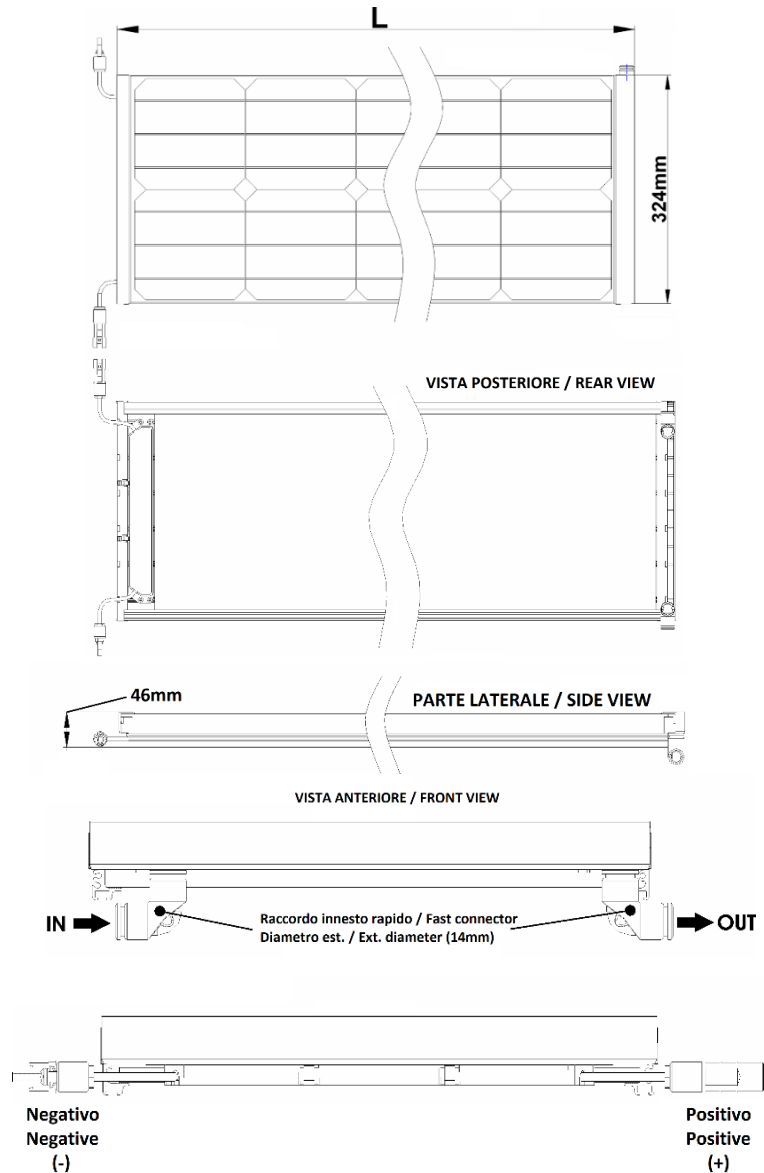
ELECTRICAL

Cells per module	36
Cell type	monocrystalline
Nominal Power ± 3% (Pmax) Wp	180
Power per area W/ m ²	193
Module efficiency η(%)	19,3
Max Voltage U _{MPP} (V)	20
Max Current I _{MPP} (A)	9,2
Open Circuit Voltage U _{OC} (A)	23,8
Short Circuit Current I _{SC} (A)	9,6
Max Reverse Current I _R (A)	20
System Max Voltage V _{SYS} (V)	777



The RA module is not affected by temperature variation

- special module-module joining system through a silicone gasket
- 33% reduced space thanks to photovoltaic and thermal combined
- designed for water-proof treadable roofing



THERMAL

Thermal power W	675
Power per area W/ m ²	722
Hydraulic connectors	quick coupling
Pressure (mmH ₂ O)	1
Volume flow rate (l/min)	17
Water + coolant (litres)	9,2
Coolant type	25% glycol pro.
Gross area m ²	0,94
Aperture area m ²	0,92
Absorption area m ²	0,92
Thermal insulation λ=0,037	polystyrene
Max pressure (bar)	1,5

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Cert. n°2026/99/S

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