



MEYER BURGER

# Hybrid

The intelligent combination of solar thermal energy and photovoltaics

## Higher electricity yield due to cell cooling

- High-efficiency monocrystalline cell technology
- 17.4 % electrical module efficiency
- 60 % thermal module efficiency
- Very high load carrying capacity thanks to 5 mm toughened solar glass
- Sole manufacturer of solar modules with a certified hail resistance class HW 4 (40 mm diameter hailstones)
- Higher electricity yield than with conventional PV modules due to efficient cell cooling
- Space-saving and energy-efficient system through the combination of solar thermal energy and photovoltaics
- Optimum operation in the low temperature range
- A Swiss quality product from Thun
- Punctual delivery



## Specifications

Properties	
Dimensions	991 x 1656 x 17 mm
Glass thickness	5 mm
Glass properties	Tempered solar safety glass, AR*

Electrical specifications	
Nominal output	285 Wp
Voltage $U_{mpp}$	31.4 V
Current $I_{mpp}$	9.1 A
Open circuit voltage $U_{oc}$	39.8 V
Short circuit current $I_{sc}$	9.7 A
Maximum system voltage	1000 V
Reverse current overload	18 A
Tolerance nominal output	±3 %

Temperature coefficients	
$\alpha (I_{sc})$	+0.046 %/K
$\beta (U_{oc})$	-0.306 %/K
$\gamma (P_{mpp})$	-0.391 %/K

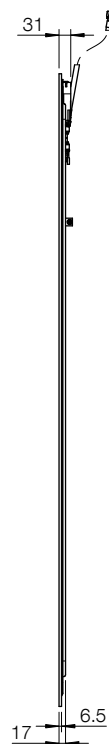
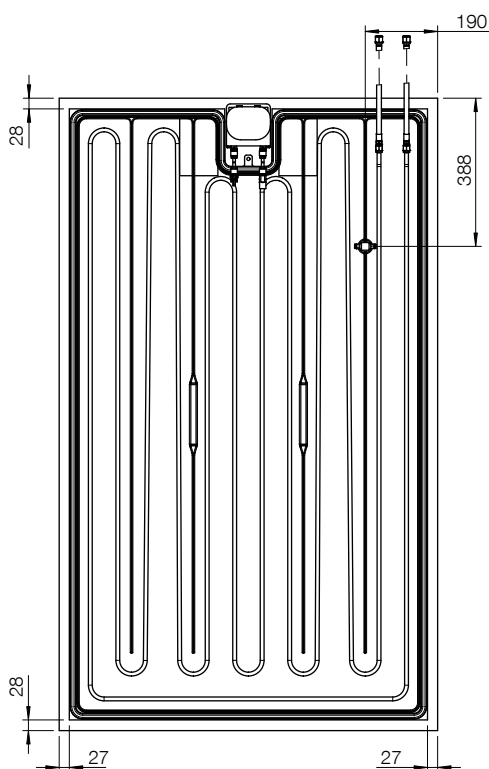
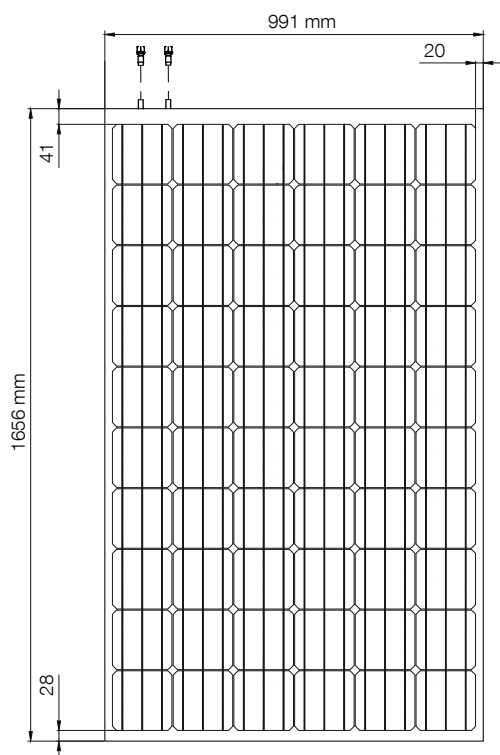
\* With antireflective coating (AR).

Electrical performance characteristics at STC (1000 W/m<sup>2</sup>, 25°C, AM 1.5).  
Measurement protocols are available on request.

Mechanical specifications	
Backsheet	Highly insulating multilayer laminate / white
Laminate structure	Glass / EVA / cells / EVA / backsheet
Weight	29 kg
Cell type	156 x 156 mm monocrystalline
Cell connection	60 cells, serial
Electrical junction box	Solarlok 4-Rail with 3 bypass diodes
Electrical connection cables	Solarlok 4 mm <sup>2</sup> , length 1 m each
Electrical connectors	Solarlok PV4
Certified pressure load	5400 N/m <sup>2</sup>
Hail resistance class	HW 4 (withstands 40 mm diameter hailstones)

Thermal and hydraulic specifications	
Output at T0	900 W
Nominal volume flow rate	50 - 100 l/h
Maximum operating pressure	6 bar
Idle temperature	ca. 80 °C
Hydraulic connection	Flexible pipes, 660 mm each / connecting nut SERTO M 16-1
Fluid capacity per collector	0.75 l

The thermal absorber efficiency is increased due to the patented vacuum technology. The complete pneumatic distribution box for this technology is supplied as a standard part.



## Certifications and guarantee

Quality testing, static load-bearing capacity	IEC 61215
Operating safety	IEC 61730
Product guarantee	5 years
Performance guarantee	10 years at 90% of the minimum output 25 years at 80% of the minimum output



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Further information on our Swiss quality products can be found on the website. We are also happy to provide advice in person.