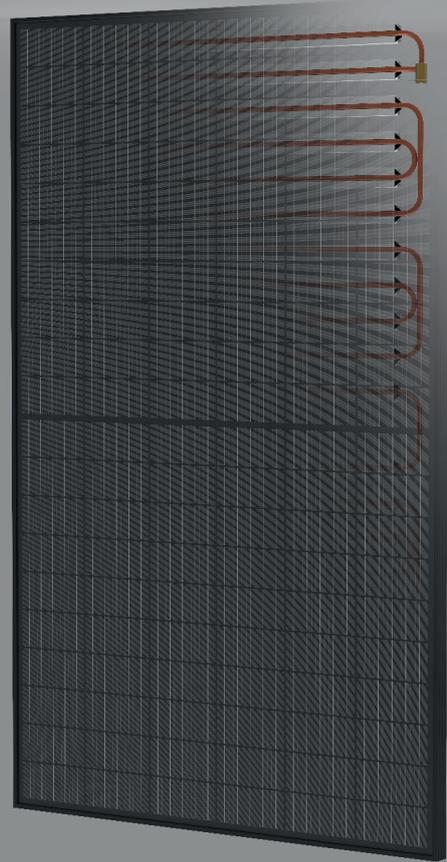




## Next generation PVT

The Qpanel is an innovative composition of a Full Black high-quality 330 Wp solar panel with a high-tech thermal collector as a silent source for the heat pump. These two techniques combined is called PV-T (Photo Voltaic Thermal).

With the Qpanel, sustainable electricity and heat are generated in homes and commercial buildings. The Qpanels act as a completely silent source for a heatpump. So no more outdoor units with loud fans that can cause inconvenience.



### Silent

The Qpanel is a silent source for the heatpump,



### 24/7

Works 24/7, even at night and generates at any time of the year.



### Heating and cooling\*

Use the Qpanel to heat and cool the house.

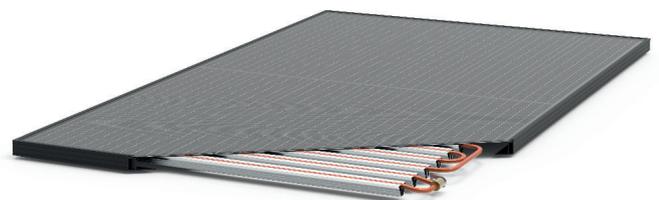
## Electricity, heat & cooling in one

The Qpanel generates electricity while the thermal collector at the backside extracts heat from the sun and air. Sun, wind or rain, the panel can get energy from it. A big advantage is the Qpanel works 24/7. So even when it is dark or during bad weather conditions with cold, rain and wind.

\* Cooling function under development

## Maximum energy per m<sup>2</sup>

Only 2 Qpanels per kW heatpump outputpower are required. An average well-insulated house can be heated with just 10 Qpanels. Hybrid setups are also possible to save fossil energy.



## Dimensions

Length	1684	mm
Width	1002	mm
Height	35	mm
Surface	1,67	m <sup>2</sup>
Weight	27,8	kg

## Mechanical data PV

Cell	Half monocrystalline	
Cell type	DMPD5B159-223 (½)	
Cell arrangement	6 x 20	
Panel construction	glas/EVA/cellen/EVA/backsheet	
Glass thickness	3,2	mm
Glass classification	class A bij IEC 61730	
Junction box norm	IP67 / IP68	
Cabling	1000	mm
Cabling	4	mm <sup>2</sup>
Connector type	MC4 / MC4 compatible	
Fire class	C	

## Temperature coëfficiënts

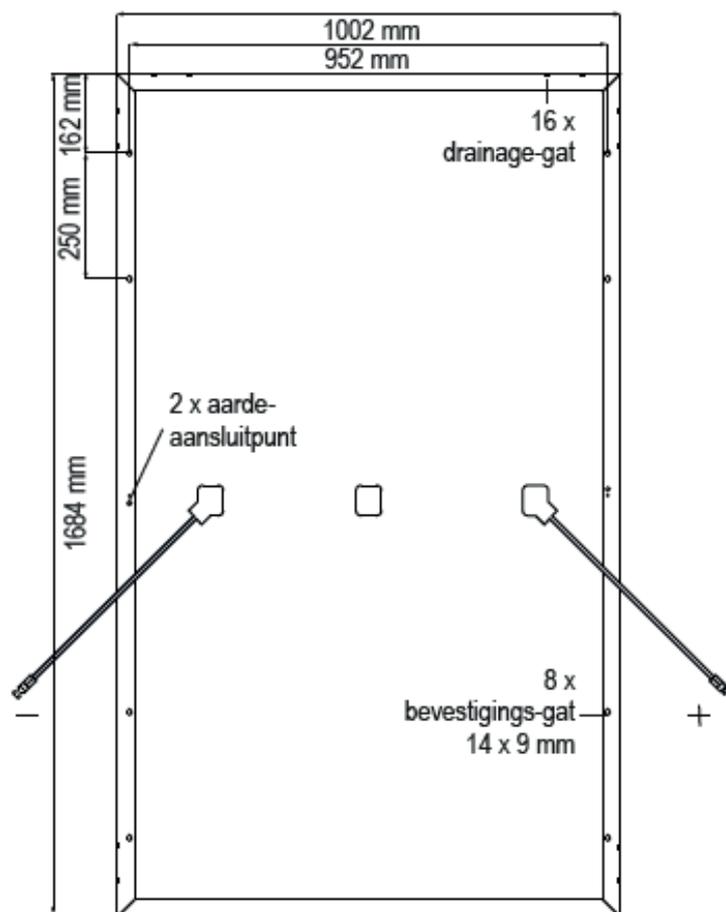
Nominal operating temperature	42 ±3 (NMOT)	°C
Temp. coëfficiënt I <sub>sc</sub>	+0,038 % / °C	
Temp. coëfficiënt V <sub>oc</sub>	-0,270 % / °C	
Temp. coëfficiënt P <sub>max</sub>	-0,365 % / °C	

## Various specifications

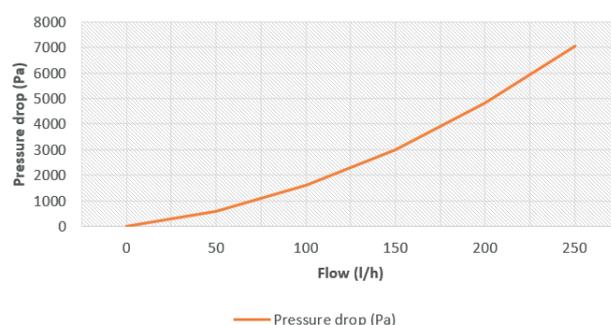
Warranty power output	25 years output 80,2%	
Operating temperature	-40 to 85	°C
Max. snow load	5400	Pa
Max. wind load	2400	Pa
Max. system voltage	1000V DC (IEC)	
Maximum fuse	20	A
Diodes	3	

## Thermal part

Max. working pressure	6	bar
Liquid content	1,5	liter
Liquid	Ethylene glycol	
Connection couplings	Easy Quickfit DN12	
Connecting hose	RVS flexslang DN12	



Pressure drop Qpanel



## Elektrical specifications

Panel	DM330G1-60HBB
P <sub>m</sub> (W)	330
Tolerance	0-3%
IMP (A)	9,74
VMP (V)	33,93
ISC (A)	10,15
VOC (V)	41,57
Efficiency	19,56%