

Sunmaxx PX-1 Premium PVT-Module



Highest efficiency and space-saving:

The simultaneous generation of electricity and heat enables a higher total efficiency.

Flexible operation:

For use on roofs or open spaces. From residential buildings to industrial buildings to cold local heating networks.

Combination with heat pumps and geothermal energy:

By using PVT-Modules, heat pumps can be operated more efficiently, and geothermal probes can be regenerated.

Generates more electricity:

Generates more electricity: Thanks to the cooling of the PVT module, an increase of 5 to 10 % in electrical output is achieved.*

Plug & Play:

Installation-friendly connectors make it easy to connect the electrics and hydraulics.

Sustainability:

The aluminium heat exchanger on the back is optimised to save material and is easily recyclable. Produced with 100% independently certified green electricity.

Address:

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Made in Europe:

Our modules are manufactured in the EU to the highest quality standards.

Completely carefree:

10 years Product Guarantee

25 years linear performance guarantee (electrical power)

97% after the 1st year, 80% after the 25th year



GENERAL	UNIT		
Dimensions	[mm]	1,725 x 1,137 x 40	
Weight	[kg]	29	
Front	-	Highly transparent solar glass ESG (3.2 mm)	
Heat exchanger	-	Aluminium-Alloy	
Frame	-	Anodised aluminium, black	
Cell background film	-	Polymer film black	

ELECTRICAL DATA	UNIT	400 W	405 W	410 W	415 W
Туре	-	108 M10 Mono half cell PERC			
Nominal PV power **	[w]	400	405	410	415
Voltage MPP V _{MPP}	[v]	32.6	32.7	32.8	32.9
Current MPP IMPP	[A]	12.3	12.4	12.5	12.7
Open circuit voltage Voc	[v]	39.5	39.6	39.6	39.7
Short circuit current Isc	[A]	13.0	13.2	13.3	13.5
Efficiency	[%]	20.4	20.6	20.9	21.2
Max. system voltage Vpc	[v]	1,500			
Reverse current load capacity	[A]	25			
Temperature coefficients	[%]	power α + 0.05%/K voltage β – 0.26%/K current γ -0,34%/K			
Connection	-	3-part junction box according to IEC 62790, MC4 original connector according to EN 62852			

THERMAL DATA	UNIT		
Thermal power ***	[w]	1,200	
Thermal carrier medium	-	Water-glycol mixture	
Volume thermal carrier medium	[١]	0.7	
Pressure drop ****	[mBar]	29	
Hydraulic connection	-	Plug in connector with flexible tube	
Testing pressure	Bar	6	
Operating pressure	Bar	1 – 2	
Specific flow	[l/h]	50 – 150	
Stagnation temperature	°C	81	
Thermal collector efficiency: η₀ ******	-	0.76 / 0.60 (Voc / MPP)	

^{*} Estimation without obligation

^{**} STC Condition

^{***} Radiation: 1,000 W/m², Volume Flow: 144 I/h, Temperature: 25 °C, Wind speed: 0 m/s, Delta T = 0 Kelvin, MPP measuring

^{**** 100} l/h, 20 °C (water)

^{*****} Radiation: 1,000 W/m², Volume Flow: 144 I/h, Temperature: 25 °C, Wind speed: 0 m/s, Delta T = 0 Kelvin 0,76 corresponds to 1,522 W, 0,6 corresponds to 1,200 W