

PV + T

PX-1 PVT HYBRID MODULE

> 80 %
Total Efficiency



Compatible with any brine heat pump model and manufacturer, serving as direct heat source.



Highly efficient – 365 days a year, even in winter. Snow melting possible.



Suitable for (almost) any application: private homes, residential, industry, and municipal heat supply.



PV electricity from solar radiation with 5 to 10% extra yield through heat extraction.



Can also be used for cooling: the standard heating circuit is easily reversible in summer.



Made in EU. Sustainably manufactured with 100% independently certified green electricity.

10 Years Product Guarantee.

25 Years Linear (Electrical) Performance Guarantee.

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



Learn more:

www.sunmaxx-pvt.com



Sunmaxx PVT GmbH

Schutterwälder Str. 13
D-01458 Ottendorf-Okrilla

+49 35205 69401-0
office@sunmaxx-pvt.com
www.sunmaxx-pvt.com



ELECTRICAL DATA	INFORMATION	UNIT	SPECIFICATIONS			
	Dimensions	[mm]	1,725 x 1,136 x 40			
	Weight	[kg]	29			
	Front	–	Highly transparent solar glass ESG (3.2 mm)			
	Heat exchanger	–	Aluminum alloy			
	Frame	–	Anodized aluminum, black			
	Cell background film	–	Polymer film, black			
ELECTRICAL DATA	Type	–	108 M10 Mono half cell TopCon			
	Nominal PV power **	[W]	425	430	435	440
	Voltage MPP V_{MPP}	[V]	31.3	31.4	31.6	31.7
	Current MPP I_{MPP}	[A]	13.6	13.7	13.8	13.9
	Open circuit voltage V_{OC}	[V]	37.9	38.1	38.2	38.4
	Short circuit current I_{SC}	[A]	14.3	14.4	14.4	14.6
	Efficiency	[%]	21.8	22.0	22.3	22.5
	Max. system voltage V_{DC}	[V]	1,500			
	Reverse current load capacity	[A]	25			
	Temperature coefficients	[%]	current $\alpha + 0.045 \text{ \%/K}$ voltage $\beta - 0.25 \text{ \%/K}$ power $\gamma - 0.30 \text{ \%/K}$			
	Connection	–	3-part junction box according to IEC 62790, MC4 original connector according to EN 62852			
THERMAL DATA	Thermal power ***	[W]	1,200			
	Thermal carrier medium	–	Water-glycol mixture			
	Volume thermal carrier medium	[l]	0.7			
	Pressure drop ****	[mBar]	29			
	Hydraulic connection	–	Plug-in connector with flexible tube			
	Maximum test pressure	Bar	6			
	Operating pressure	Bar	1 – 2			
	Specific flow	[l/h]	50 – 150			
	Stagnation temperature	°C	81			
	Thermal collector efficiency: η_0 *****	–	0.76 / 0.60 (V_{OC} / M_{PP})			

* Estimation without obligation
** STC Conditions
*** Radiation: 1,000 W/m², Volume flow: 144 l/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 l/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

Measurement accuracy P_{MPP} at STC -3 / +3 % | Tolerance remaining electrical values -10 / +10 %
Certification: Solar Keymark DIN EN 12975:2022-06 / DIN EN ISO 9806:2018-06
WEEE Reg. No.: DE87499823