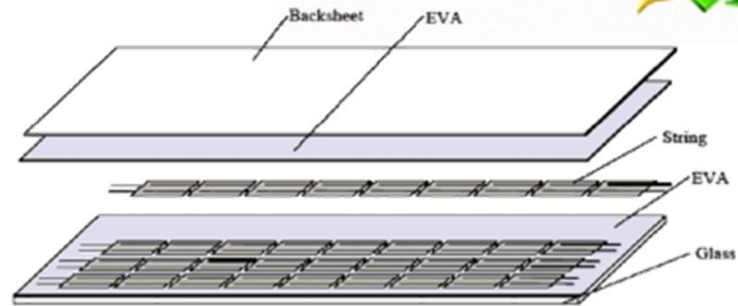
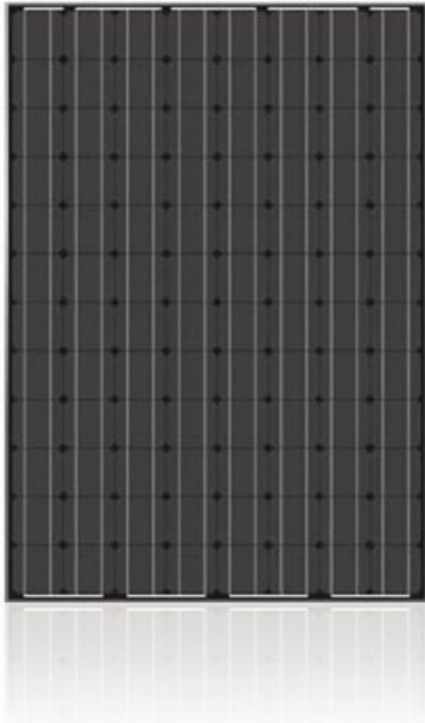


PKM 96M (BK) 265 - 285 W



Power Kombi PV-T Modules For Heating, Warm Water and Electricity.

This hybrid system produces electricity and hot water for heating and domestic hot water at the same time. Due to the heat absorption of the hot water production, the temperature of the module is kept at a constant low level to gain a higher efficiency compared to standard modules, where the efficiency drops with higher temperatures. This PV-T solution allows you to get more power out of the sun.

RoHS (Restriction of Hazardous Substances):

Like all other panels from Power Kombi Module this fulfils all restrictions regarding the use of Lead, Mercury, Cadmium, Hexavalent Chromium, PBB or PBDE. Therefore, you can be sure about one thing: we take our green mission very responsibly. During the manufacturing process of this panel rigorous quality control meets the highest international standards: ISO9001, 14001 und 18001.

The **Benefits** of the Power Kombi PV-T Modules:

- More economical, as multiple technologies are combined in one.
- Less roof space required to fit, as PV and Thermal technologies combined in a single panel.
- Electricity and heat generated.
- Installations eligible for the Feed-in Tariff (FIT) and Renewable Heat Incentive (RHI)
- Combined technologies work together to operate more efficiently.
- Faster return on investment (ROI).
- Lifetime of PV cells lengthened as cell operating temperature reduced.
- Heating without CO₂ (carbon) emission and hot water system.
- All year round solution.

Questions?

Phone: +49 – 171 – 58 60 379

● Email: powerkombimodule@gmail.com

Warranty:

- 10 years product warranty

Power Output Warranty:

- 90 % power output up to 12 years
- 80 % power output up to 25 years

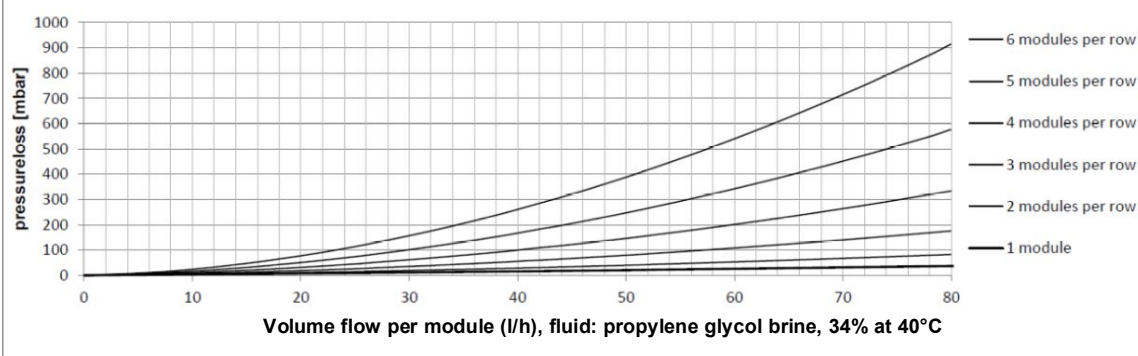




Mechanical and Thermal Characteristics

Dimensions:	1580 x 1062 x 50 mm
Weight:	39 kg empty, 43 kg filled
Connectors:	Supply line: 3/4" ET male thread Module connect.: DN8 plug-type hoses, 15mm pipe socket
Max. adm. temp. of heat transfer fluid:	90°C
Max. adm. system pressure:	6 bar
Operating pressure:	2.5 bar
Pressure loss:	See overview "Pressure Loss Curves" below
Recommended flow*:	35 l/h (0.58 l/min) per module, up to max. 90 l/h (1.16 l/min) per module
Storage volume:	approx. 90l per module are recommended
Thermal output:	800 W*
Product Warranty:	10 years
Power Warranty:	90% 12 years, 80% 25 years

Pressure Loss Curves: Rows of POWER KOMBI MODULE PVT-Modules



*Module power depends on the temperature of the heat transfer fluid. Under STC conditions, a peak output of approx. 800 W is possible

Electrical Characteristics

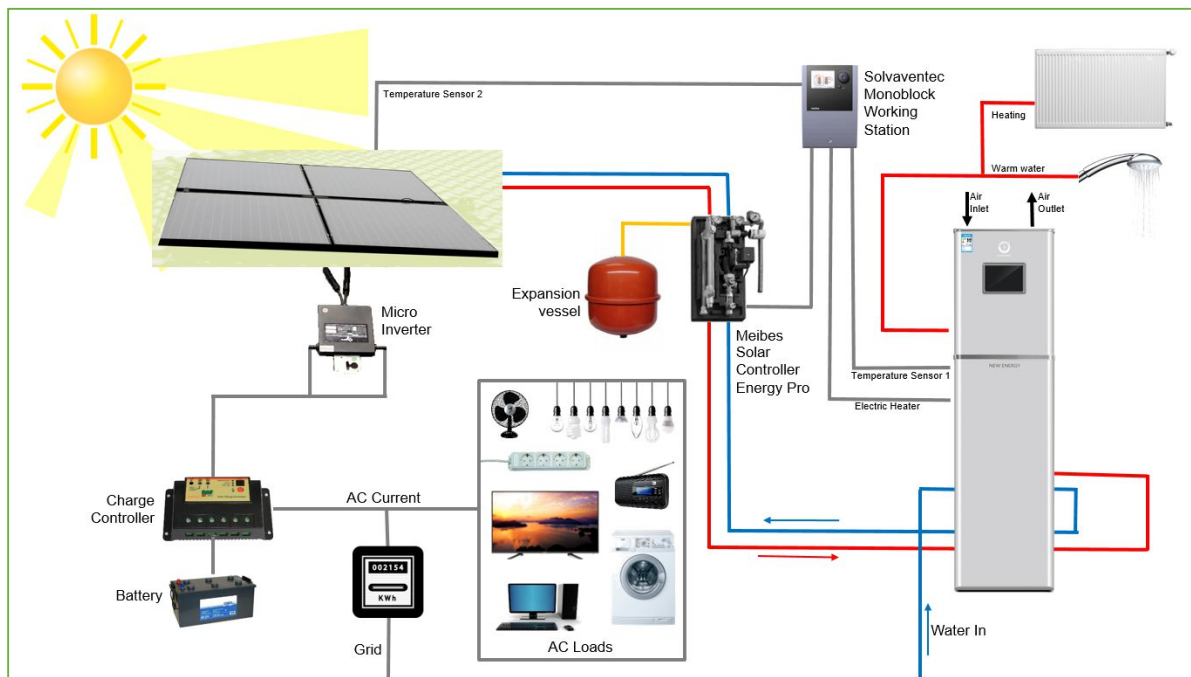
	250 W	260 W	265 W	270 W	275 W	280 W	285 W
Maximum Power at STC (Pmax)	250 W	260 W	265 W	270 W	275 W	280 W	285 W
Short Circuit Current (Isc)	5.51 A	5.80 A	5.83 A	5.85 A	5.85 A	5.86 A	5.90 A
Open Circuit Voltage (Voc)	58.10 V	58.68 V	58.70 V	58.90 V	58.90 V	59.70 V	60.40 V
Maximum Power Current (Impp)	5.14 A	5.28 A	5.40 A	5.45 A	5.56 A	5.57 A	5.61 A
Maximum Power Voltage (Vmpp)	48.6 V	49.2 V	49.35 V	49.50 V	49.50 V	50.20 V	50.80 V
Module Efficiency	14.90%	15.50%	15.79%	16.09%	16.39%	16.69%	16.98%
Power Tolerance	0~+3%	0~+3%	0~+3%	0~+3%	0~+3%	0~+3%	0~+3%

STC: irradiance 1000 W/m²
Module temperature: 25°C
AM = 1,5



The PKM Full System

PV Power-Thermal Hot Water Systems (PV-T Systems) supplied by Power Kombi Module come with a hot water heat pump solar boiler. The pump combines with the PV-T module to create three renewable technologies in one. The three combined technologies work in harmony, actually making each other operate even more efficiently. As a general rule, PV modules work more efficiently in cooler temperatures. That is why the combined dual technologies of a PV-T module create a more efficient panel: the flow of water at the back of the modules acts in cooling down the PV cells, thus increasing panel performance. Furthermore, the addition of a heat pump solar boiler allows a much higher generation of hot water. This also offers the extra benefit of cooling your house during the summer months.



Over 100 % saving on hot water expenditure

Eligible for FIT and RHI

Up to 800 litres of hot water can be produced during 8 hours

Fully approved by TÜV Rheinland, CE, IEC, MCS, UL

POWER KOMBI MODULE GmbH

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Warranty:

- 10 years product warranty

Power Output Warranty:

- 90 % power output up to 12 years
- 80 % power output up to 25 years

