Tel. +41 22 534 9087



PRODUCT DATASHEET: MT-Power: For Thermal Applications 100°C To 180°C

Unrivalled performance in any climate condition, without concentration

MT-Power is Thermal Vacuum Power Charged™: a revolutionary, highend, high-vacuum flat solar thermal panel designed as an ideal thermal energy source in the medium temperature range ($100^{\circ}\text{C} - 180^{\circ}\text{C}$) for air conditioning/cooling, desalination and process heat in commercial and industrial applications.

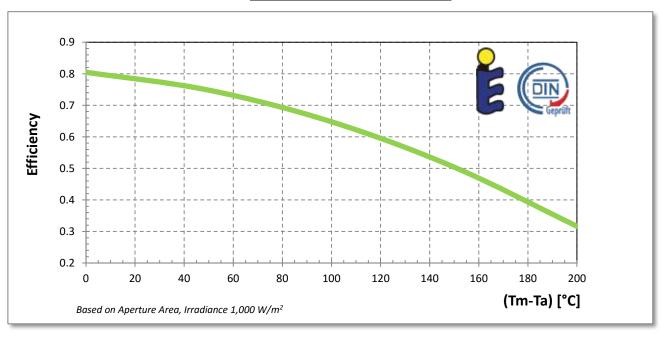
Key FEATURES

- ✓ Unique combination of planar layout and high-vacuum insulation
- ✓ Corrosion-proof all-metal casing
- ✓ Embedded return HTF flow under high-vacuum
- ✓ Made with materials qualified for long-lasting high-vacuum operation
- ✓ Spot-Check™ visual vacuum verification
- √ 100% recyclable

Key ADVANTAGES

- ✓ Lowest cost per Watt_(thermal)
- ✓ Highest peak performance: 500 W_{th}/m² at 180°C (equivalent to >700W_{cool}); 650 W_{th} at 130°C
- ✓ Highest yearly average output: due to maximum diffuse light capture
- ✓ Long durability: no degradation of performance over long-lasting product lifetime
- ✓ Zero panel maintenance: no need for precision cleaning and no serviceable mechanical parts
- ✓ Superior design for solar fields: minimizes footprint and balance of system, as well as easing installation

MT-Power Performance Curve

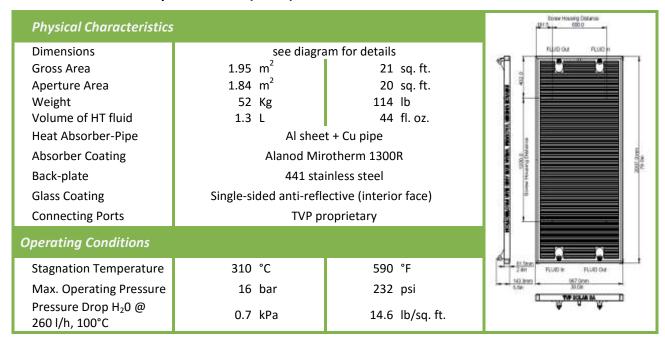


MT-Power is the only solar thermal panel with Solar Keymark certification to 200°C

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TVP Solar MT-Power Specifications (v4.2x)



Wide Range of Applications

Application	Machinery	Temp Needs (°C)	Peak Power
Air Conditioning / Cooling	Double-Effect Absorption Chiller	180	500 W
	Single-Effect Absorption Chiller	95	700 W
Desalination	MED/TVC	120 – 180	500 W
	MED	80 – 100	680 W
	MSF	70 – 90	720 W
Industrial Process Heat	Sterilization	140 – 150	570 W
	Dehydration, Dyeing	100 – 140	600 W
	Pasteurization	80 – 110	680 W

Thermal Vacuum Power Charged™

Thermal Vacuum Power Charged™ technology is the foundation of the high-vacuum flat solar thermal panels, providing high efficiency, low cost and long durability. Using a patented, inorganic and flexible glass/metal seal, TVP Charged™ panels combine the advantages of a traditional planar layout (e.g. minimum dead space and maximum diffuse light capture) and complete suppression of convection losses due to high-vacuum insulation. Built with commonly available, inexpensive materials qualified for long-lasting high-vacuum products over the last 100 years (i.e. light bulbs and cathode ray tubes), the technology is specifically engineered for mass manufacturing.

TVP Charged™ panels harness the full power of solar thermal technology – providing unrivalled performance for any thermal application in any climate condition, without concentration.

