Solar Thermal or Solar Photovoltaic? ESW Says 'Both'

Solimpeks PV-T (Hybrid collector) generates your electricity and heats up your water simultaneously.

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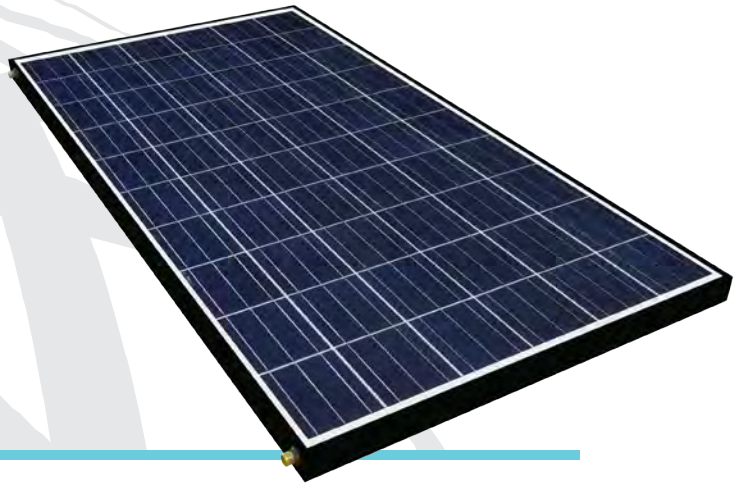
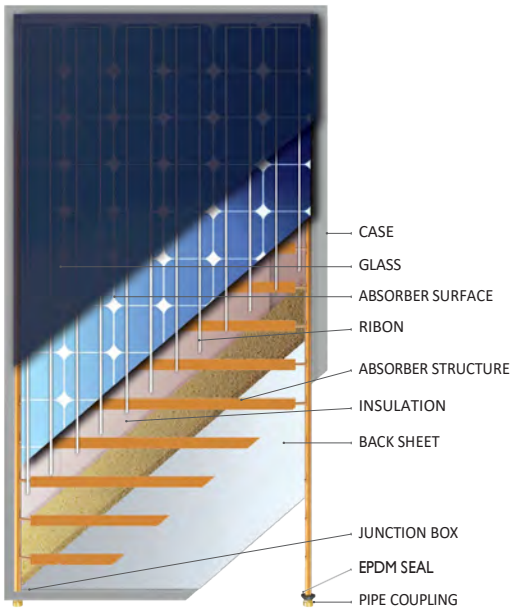
VOLTHER EXCELL

Electricity and usable thermal hot water at the same time from one panel.
Extra-much electricity production per year with cooled PERC cells.





TECHNICAL SPEIFICATIONALS OF HYBRİD COLLECTORS

Specifications / Product Code	WOLTHER EXCELL PVT
Dimensions	1670x 1005 x 60mm
Weight	28,44 kg
Gross Area	1,673 m²
Number Of Cells	60 (6x10)
Cell Dimensions (mm)	158,75x158,75
Nominal Power (Wp)	325 W
Glazing	Pv Glass
Absorber Surface (PV)	Mono
Absorber Surface (T)	Copper
Safety Class	II
Maximum over current protection rating	15A
Power tolerance, current tolerance and voltage tolerance	3%
Volume of heat transfer fluid	0,85 L
Imp (A) Nominal Current	9.62 A
Isc (A) Short Curcuit Current (5%)	10.17 A
Vmp (A) Nominal Voltage	34.30 V
Voc (V) Open Curcuit Current (5%)	41.67 V
Welding Type	Laser
Absorber Tube Diameter	8,0 mm
Absorber Tube Thickness	0,45 mm
Manifolt Tube Diameter	18 mm
Manifolt Tube Thickness	0,70 mm
Tube Number	7
Tube Distance	130 mm
Max. Operation Pressure	8,6 bar
Test Pressure	13 bar

*All electrical data shall be shown as relative to standard test conditions (STC) (1 000 W/m2, (25 ± 2) °C, AM 1,5 according to IEC 60904-3 and IEC TS 61863).

*Stagnation temperature at 1000W/m2 and 30°C -> 70°C

Typical Electrical Parameters	Unit	MR325M-60C/M
Nominal power at STC, Pmax	W	325
Power Tolerance at STC	%	± 3
Voltage at Pmax, Vmp	V	34.30
Current at Pmax, Imp	A	9,62
Open Circuit Voltage, Voc (± 3%)	V	41.67
Short Circuit Current, Isc (± 3%)	A	10.17
Maximum System Voltage	V DC	1000
Temperature Coefficient of Pmp	%/°C	0.048
Temperature Coefficient of Voc	%/°C	-0.255
Temperature Coefficient of Isc	%/°C	-0,0331
Class of Protection		II
Maximum Series Fuse	A	15

MECHANICAL PARAMETERS		MRxxxM-60C/M	MRxxxM-72C/M
Cell Type		Mono Crystalline	
Cell Size	mm	158.75 x 158.78	
No. Of Cells (Matrix)	pcs	60	72
Module Overall Dimensions (LxWxT)	mm	1665 x 1002 x 35	1982 x 1002 x 40
Weight (Approx.)	Kg	19	23.5
Design Load	Pa	1600	
Fire Performance Type		1	

*Under normal conditions, a photovoltaic module is likely to experience conditions that produce higher current and/or voltage than reported at standard test conditions. Accordingly, the values of Isc and Voc, marked on this PV module should be multiplied by a factor of 1,25 when determining component voltage ratings, conductor current ratings, and size of controls (e.g. inverter) connected to the PV output.
* Type or model number designationfor PV: MIR310-335W
*Nominal module operating temperature (NMOT). 36.9 °C
*Performance at NMOT (MQT 06.2). 242.5 W
*Performance at low irradiance (MQT 07) is specified. 63.2 W
*Temperature coefficient for voltage at open-circuit; Beta [%/°C] -0.255 Vd = -0.28%/°C
*Temperature coefficient for maximum power; alpha [%/°C] 0.048 Vd = -0.37%/°C
*Temperature coefficient for short-circuit current; Gamma [%/°C] -0.331 Vd = +0.048%/°C
*The type and ratings of bypass diode to be used (if applicable): = 15A, IP68
*Fire rating: Class C

• Manufacturer uses one types of junction boxes in the panels it produces. PV-Junction Box model is PV-ZH011-3D (Manufacturer: Zhejiang Zhonghuan Sunter) PV-Connector model is PV-JM601 (Manufacturer: Zhejiang Jiaming Tianheyuan) 4mm², the connector cables size = 1 x 4mm² Temperature Rating = 90°C, 1000VDC (according to IEC 62852:2014)

*Country of Manufacturer : Turkey