

Solar Thermal or Solar Photovoltaic? Solimpeks Says 'Both'

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



VOLTHER
hybrid collectors

www.solimpeks.com

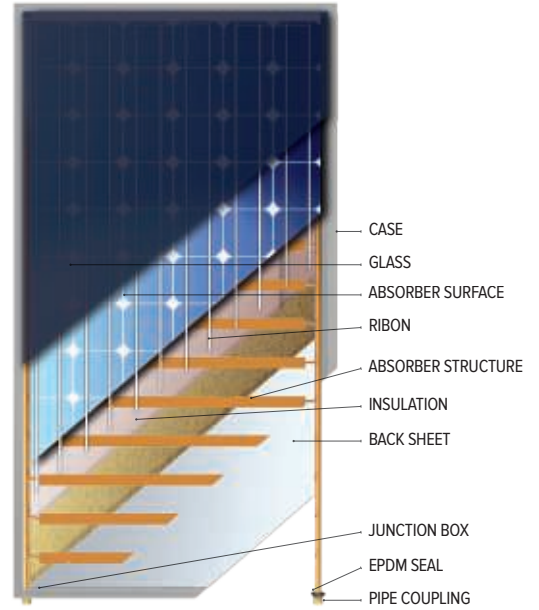
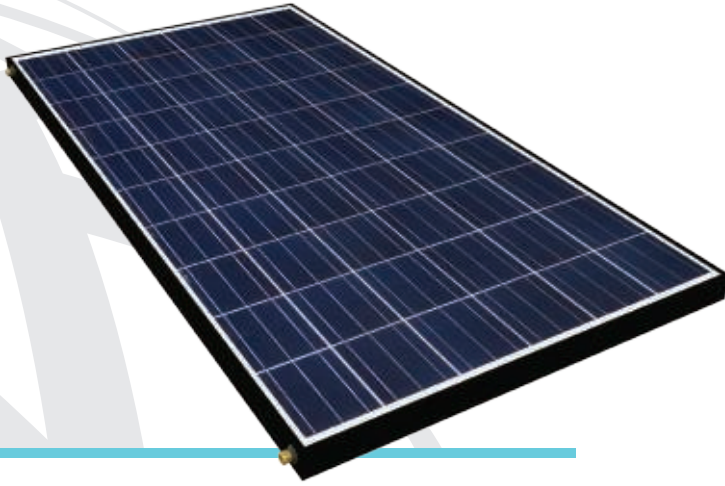


SOLIMPEKS
Solar Energy Corp.



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 SPECIFICATIONS OF HYBRID COLLECTORS

Specifications / Product Code	WOETHER EXCELL PVT
Dimensions	1670x 1005 x 60mm
Weight	28,44 kg
Gross Area	1,673 m ²
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 Circuit Current (5%)	10,17 A
Vmp (A) Nominal Voltage	34,30 V
Voc (V) Open Circuit Current (5%)	41,67 V
Welding Type	Laser
Absorber Tube Diameter	8,0 mm
Absorber Tube Thickness	0,45 mm
Manifold Tube Diameter	18 mm
Manifold 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) (1000 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	MRwwwM-60C/M	MRwwwM-72C/M
Cell Type	Mono Crystalline	
Cell Size	mm	158.75 x 158.78
No. Of Cells (Matrix)	pcs	60 72
Module Overall Dimensions (LxWxH)	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 designation for PV: MR310-335W

*Nominal module operating temperature (NMOT): 36.9 °C

*Performance at NMOT (MGT 06.2): 242.5 W

*Performance at low irradiance (MGT 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 = 1x4mm² Temperature Rating = 90°C, 1000VDC (according to IEC 62852:2014)

*Country of Manufacturer : Turkey

