

	COLLECTOR THERMAL PERFORMANCE RATINGS										
Kilowatt-hours (thermal) Per Panel Per Day					Thousands of	Btu Per Panel Per Day	T				
Climate ->	High Radiation	Medium Radiation	Low Radiation	Climate ->	High Radiation	Medium Radiation	Low Radiation				
Category (Ti-Ta)	(6.3 kWh/m².day)	(4.7 kWh/m².day)	(3.1 kWh/m².day)	Category (Ti-Ta)	(2000 Btu/ft².day)	(1500 Btu/ft².day)	(1000 Btu/ft².day)				
A (-5 °C)	8.6	6.4	4.2	A (-9 °F)	29.2	21.8	14.5				
B (5 °C)	8.4	6.3	4.1	B (9 °F)	28.8	21.4	14.1				
C (20 °C)	8.2	6.0	3.9	C (36 °F)	28.0	20.6	13.3				
D (50 °C)	7.6	5.4	3.3	D (90 °F)	25.8	18.5	11.1				
E (80 °C)	6.7	4.6	2.6	E (144 °F)	22.9	15.8	9.0				
A- Pool Heati	ng (Warm Climate) B - Poe	ol Heating (Cool Climate)	C- Water Heating (Warm	Climate) D - Spac	e & Water Heating (Cool 0	Climate) E - Commercial H	ot Water & Cooling				

TECHNICAL RESULTS Tested in accordance with: ISO 9806:2013									
ISO Efficiency Equ	ation [NOTE: Based	on gross area and (F	P)=Ti-Ta]						
SI UNITS:	η= 0.729 - 0.55610(P/G) - 0.00610(P ² /G) Y Intercept: 0.745 Slope: -1.455 W/m ² .°C						//m².°C		
IP UNITS:	η= 0.729 - 0.09801(P/G) - 0.00060(P²/G)			Y Intercept:	0.745	Slope:	-0.256 B	tu/hr.ft².°F	
Incident Angle Mod	difier								
θ	10 ⁰	20 ⁰	30 ⁰	40 ⁰	50 ⁰	6	0 ⁰	70 ⁰	
Κτα	1.00	0.99	0.99	0.97	0.94	0.88 0.71			
	-		Impact Sa	fety Rating: 2					

COLLECTOR SPECIFICA	TIONS				
Gross Area:	1.960 m ²	21.10 ft ²	Dry Weight:	53.0 kg	116.8 lb
Net Aperture Area:	1.830 m ²	19.70 ft ²	Fluid Capacity:	1.4 liter	0.4 gal
REMARKS:				-	

Shawn Martin

Technical Director

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	OG-100 ICC-SRCC™ CEI	RTIFIED SOLAR COLLECTOR	# 10002057
	Supplier:	Brand:	MT-Power
	TVP Solar	Model:	v4
(ICC-SRCC)	Rue du Pré-de-la-Fontaine 10 Satigny Business Park	Collector Type:	Glazed Flat Plate
	Satigny, GENEVA 1242 Switzerland	Certification #:	10002057
SOLAR RATING	Reference Standard:	Original Certification:	November 14, 2017
& CERTIFICATION CORPORATION	ICC 901/SRCC Standard 100-2015	Renewal Expiration Date:	November 01, 202
		Certifications must be re	enewed annually.

	ADDITIONAL INFORMATION (click here to return to the rating page)										
COLLECTOR TESTING INFORMATION											
	Forschungs- und Testzentrum für Solaranlagen (TZS) am Institut für Thermodynamik und Wärmetechnik (ITW) der Universität StuttgartTest Date:May 24, 2017										
Test Report Number:	16COL1343		Test Location:	indoors							
Test Fluid:	Water	Vater									
Test Mass Flow Rate:	0.0200 kg/(s m²)	14.75 lb/(hr ft²)	Test Pressure:	0 kPa	0 psi						

SOLAR COLLECTOR	CONSTRUCTION DETA	AILS			
Gross Length:	0.975 m	Gross Width:	2.015 m	Gross Depth:	51.000 mm

COLLECTOR MATERIALS								
Outer Cover:	Glass	sheet	Enclosure back:	Stainless Steel	Back Insula	ation:	Vacuum, Vacuum	
Inner Cover:	Glass	sheet	Enclosure side:	Stainless Steel	Side Insula	ation:	Vacuum, None	
Absorber Description:		Tubes cor	nected to Single Sheet	Flow Pattern:	-		Mixed	
Riser Tube:		Copper		Fin:		Aluminum		
Absorber Coating:			Selective	Tube to fin connection			Laser Weld	

GLAZING	Outer Cover	Inner Cover		
Material:	Glass sheet Glass sheet			
Surface Characteristics:	Smooth	Smooth		
Thickness:	5.0 mm	0.0 mm		
Transmissivity:	High (equal to or greater than 90%)	High (equal to or greater than 90%)		
Length:	2.000 m	2.000 m		
Width:	0.960 m	0.960 m		
Tube Glazing to Header Enclosure Seal:	Other			



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	OG-100 ICC-SRCC [™] CEF	RTIFIED SOLAR COLLECTOR	# 10002057
	Supplier:	Brand:	MT-Power
	TVP Solar Rue du Pré-de-la-Fontaine 10	Model:	v4
(ICC-SRCC)	Satigny Business Park	Collector Type:	Glazed Flat Plate
	Satigny, GENEVA 1242 Switzerland	Certification #:	10002057
SOLAR RATING	Reference Standard:	Original Certification:	November 14, 2017
& CERTIFICATION CORPORATION	ICC 901/SRCC Standard 100-2015	Renewal Expiration Date:	November 01, 2021
		Certifications must be re	enewed annually.

ABSORBER:		Absorber Coating:		Selective	Selective	
Header Material:	Stainless Steel	Header OD:	0.0 mm	Header Wa	all:	0.0 mm
Riser Tube Material:	Copper	Riser Tube OD:	12.0 mm	Riser Tube Thickness:		0.5 mm
Fin Material:	Aluminum	Fin Thickness:	0.60 mm			
Flow Pattern:	Mixed		-			
Number of Riser Tubes:	6	Tube Spacing:	180.0 mm	Number of each riser the absorb	crosses	1
Length of Flow Path:	2.20 m	Riser to Fin/Plate Bond:	Laser Weld			

INSULATION:									
Location	Ту	pe	Thickness	Location	Туре	Thickness			
Back – Top Layer:	Vacuum		25.0 mm	Sides – Inner Layer:	Vacuum	52.0 mm			
Back – Bottom Layer:	Vacuum		25.0 mm	Sides – Outer Layer:	None				
Enclosure Fastening M	lethods:	Weld							

Power Output per Collector([Ti-Ta, G = 1000 W/m ²]	Power Output per Collector(W) [Ti-Ta, G = 1000 W/m ²]									
0	10	30	50	70						
1429	1418	1397	1375	1352						



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	OG-100 ICC-SRCC [™] CEF	RTIFIED SOLAR COLLECTOR	# 10002057
	Supplier:	Brand:	MT-Power
	TVP Solar Rue du Pré-de-la-Fontaine 10 Satigny Business Park Satigny, GENEVA 1242 Switzerland	Model:	v4
(ICC-SRCC)		Collector Type:	Glazed Flat Plate
		Certification #:	10002057
SOLAR RATING & CERTIFICATION CORPORATION	Reference Standard: ICC 901/SRCC Standard 100-2015	Original Certification:	November 14, 2017
		Renewal Expiration Date:	November 01, 2021
		Certifications must be re	enewed annually.

PRESSURE DROP					
Flow	ΔΡ	Flow	ΔΡ		
ml/s	Pa	gpm	in H₂0		
20	1885	0.32	7.6		
50	11758	0.79	47.3		
80	30087	1.27	121.1		



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	OG-100 ICC-SRCC CER	RTIFIED SOLAR COLLECTOR	# 10002057
	Supplier:	Brand:	MT-Power
ICC-SRCC	TVP Solar Rue du Pré-de-la-Fontaine 10 Satigny Business Park Satigny, GENEVA 1242 Switzerland	Model:	v4
		Collector Type:	Glazed Flat Plate
		Certification #:	10002057
SOLAR RATING & CERTIFICATION CORPORATION	Reference Standard: ICC 901/SRCC Standard 100-2015	Original Certification:	November 14, 2017
		Renewal Expiration Date:	November 01, 2021

ICC-SRCC OG-100 Certification Label

The collectors listed in this certification must display the label below.

The certification label must be permanently affixed to each collector in accordance with SRCC OG-100 program requirements.





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