


<b>SOLAR COLLECTOR CERTIFICATION AND RATING</b>    <b>SRCC OG-100</b>	<b><u>CERTIFIED SOLAR COLLECTOR</u></b>  <b>SUPPLIER: Your Solar Home, Inc.</b> 299 Applewood Crescent, Unit 4 Vaughan, ON L4K 4E7  <b>MODEL: SolarSheat 1000G</b> <b>COLLECTOR TYPE: Glazed Flat-Plate</b> <b>CERTIFICATION #: 100-2006-008C</b>
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<b>COLLECTOR THERMAL PERFORMANCE RATING</b>							
Megajoules Per Panel Per Day				Thousands of Btu Per Panel Per Day			
CATEGORY (Ti-Ta)	CLEAR DAY	MILDLY CLOUDY	CLOUDY DAY	CATEGORY (Ti-Ta)	CLEAR DAY	MILDLY CLOUDY	CLOUDY DAY
	23 MJ/m <sup>2</sup> ·d	17 MJ/m <sup>2</sup> ·d	11 MJ/m <sup>2</sup> ·d		2000 Btu/ft <sup>2</sup> ·d	1500 Btu/ft <sup>2</sup> ·d	1000 Btu/ft <sup>2</sup> ·d
A (-5°C)	13	10	7	A (-9°F)	12	10	7
B (5°C)	10	7	4	B (9°F)	10	7	4
C (20°C)	6	4	1	C (36°F)	6	3	1
D (50°C)	1			D (90°F)	1		
E (80°C)				E (144°F)			

A-Pool Heating (Warm Climate) B-Pool Heating (Cool Climate) C-Water Heating (Warm Climate) D-Water Heating (Cool Climate) E-Air Conditioning

Original Certification Date: June 4, 2007

### COLLECTOR SPECIFICATIONS

<b>Gross Area:</b>	1.204 m <sup>2</sup>	12.96 ft <sup>2</sup>	<b>Net Aperture Area:</b>	1.037 m <sup>2</sup>	11.16 ft <sup>2</sup>
<b>Dry Weight:</b>	19.5 kg	43 lb	<b>Fluid Capacity:</b>	1 l	gal
<b>Test Pressure:</b>	0 kPa	0 psig			

### COLLECTOR MATERIALS

<b>Frame:</b>	Aluminum Extrusion
<b>Cover (Outer):</b>	Tempered Glass
<b>Cover (Inner):</b>	None
<b>Absorber Material:</b>	Tube - / Plate - Aluminum
<b>Absorber Coating:</b>	Powder coating
<b>Insulation (Side):</b>	Polyisocyanurate
<b>Insulation (Back):</b>	Polyisocyanurate

### PRESSURE DROP

Flow		Δ P	
m/s	gpm	Pa	in H <sub>2</sub> O
0	0.00	0	0.00
0	0.00	0	0.00
0	0.00	0	0.00

### TECHNICAL INFORMATION

<b>Efficiency Equation [NOTE: Based on gross area and (P) = Ti-Ta]</b>				<b>Y Intercept</b>	<b>Slope</b>
<b>SI Units:</b>	$\eta = 0.489$	$-6.8242 (P)/I$	$-0.0043 (P)^2/I$	0.49	-6.9913 W/m <sup>2</sup> ·°C
<b>IP Units:</b>	$\eta = 0.489$	$-1.2026 (P)/I$	$-0.0004 (P)^2/I$	0.49	-1.232 Btu/hr·ft <sup>2</sup> ·°F

**Incident Angle Modifier [(S) = 1/cos θ - 1, 0° ≤ θ ≤ 60°]**

$K_{\alpha} = 1.0$	-0.1084 (S)	-0.1851 (S) <sup>2</sup>
$K_{\alpha} = 1.0$	-0.09 (S)	(Linear Fit)

<b>Model Tested:</b>	1500GS
<b>Test Fluid:</b>	Air
<b>Test Flow Rate:</b>	40 l/s      85.0 scfm


### REMARKS:

June, 2007

Certification must be renewed annually. For current status contact:

SOLAR RATING & CERTIFICATION CORPORATION

c/o FSEC ♦ 1679 Clearlake Road ♦ Cocoa, FL 32922 ♦ (321) 638-1537 ♦ Fax (321) 638-1010

<p><b>SOLAR COLLECTOR CERTIFICATION AND RATING</b></p>  <p>SRCC OG-100</p>	<p><b><u>CERTIFIED SOLAR COLLECTOR</u></b></p> <p>SUPPLIER: <b>Your Solar Home, Inc.</b> 299 Applewood Crescent, Unit 4 Vaughan, ON L4K 4E7</p> <p>MODEL: SolarSheat 1500G COLLECTOR TYPE: Glazed Flat-Plate CERTIFICATION #: 100-2006-008B</p>
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COLLECTOR THERMAL PERFORMANCE RATING							
Megajoules Per Panel Per Day				Thousands of Btu Per Panel Per Day			
CATEGORY (Ti-Ta)	CLEAR DAY 23 MJ/m <sup>2</sup> ·d	MILDLY CLOUDY 17 MJ/m <sup>2</sup> ·d	CLOUDY DAY 11 MJ/m <sup>2</sup> ·d	CATEGORY (Ti-Ta)	CLEAR DAY 2000 Btu/ft <sup>2</sup> ·d	MILDLY CLOUDY 1500 Btu/ft <sup>2</sup> ·d	CLOUDY DAY 1000 Btu/ft <sup>2</sup> ·d
A (-5°C)	22	17	12	A (-9°F)	21	16	12
B (5°C)	17	12	7	B (9°F)	16	12	7
C (20°C)	11	6	2	C (36°F)	10	6	2
D (50°C)	2			D (90°F)	2		
E (80°C)				E (144°F)			

A-Pool Heating (Warm Climate) B-Pool Heating (Cool Climate) C-Water Heating (Warm Climate) D-Water Heating (Cool Climate) E-Air Conditioning

Original Certification Date: June 4, 2007

**COLLECTOR SPECIFICATIONS**

Gross Area:	2.051 m <sup>2</sup>	22.08 ft <sup>2</sup>	Net Aperture Area:	1.896 m <sup>2</sup>	20.41 ft <sup>2</sup>
Dry Weight:	41.2 kg	91 lb	Fluid Capacity:	1	gal
Test Pressure:	0 kPa	0 psig			

**COLLECTOR MATERIALS**

Frame: Aluminum Extrusion  
 Cover (Outer): Tempered Glass  
 Cover (Inner): None  
 Absorber Material: Tube - / Plate - Aluminum  
 Absorber Coating: Powder coating  
 Insulation (Side): Polyisocyanurate  
 Insulation (Back): Polyisocyanurate

**PRESSURE DROP**

Flow		Δ P	
ml/s	gpm	Pa	in H <sub>2</sub> O
0	0.00	0	0.00
0	0.00	0	0.00
0	0.00	0	0.00

**TECHNICAL INFORMATION**

Efficiency Equation [NOTE: Based on gross area and (P) = Ti-Ta]	<b>Y Intercept</b>	<b>Slope</b>
SI Units: η = 0.489 - 6.8242 (P)/I - 0.0043 (P) <sup>2</sup> /I	0.49	-6.9913 W/m <sup>2</sup> ·°C
IP Units: η = 0.489 - 1.2026 (P)/I - 0.0004 (P) <sup>2</sup> /I	0.49	-1.232 Btu/hr·ft <sup>2</sup> ·°F

Incident Angle Modifier [(S) = 1/cos θ - 1, 0° ≤ θ ≤ 60°]  
 K<sub>air</sub> = 1.0 - 0.1084 (S) - 0.1851 (S)<sup>2</sup>  
 K<sub>air</sub> = 1.0 - 0.09 (S) (Linear Fit)

Model Tested: 1500GS  
 Test Fluid: Air  
 Test Flow Rate: 40 l/s 85.0 scfm

**REMARKS:**

June, 2007

**SOLAR COLLECTOR  
CERTIFICATION AND RATING**


SRCC OG-100

**CERTIFIED SOLAR COLLECTOR**

**SUPPLIER: Your Solar Home, Inc.**  
299 Applewood Crescent, Unit 4  
Vaughan, ON L4K 4E7

**MODEL:** SolarSheat 1500GS  
**COLLECTOR TYPE:** Glazed Flat-Plate  
**CERTIFICATION #:** 100-2006-008A

**COLLECTOR THERMAL PERFORMANCE RATING**

Megajoules Per Panel Per Day				Thousands of Btu Per Panel Per Day			
CATEGORY (Ti-Ta)	CLEAR DAY 23 MJ/m <sup>2</sup> ·d	MILDLY CLOUDY 17 MJ/m <sup>2</sup> ·d	CLOUDY DAY 11 MJ/m <sup>2</sup> ·d	CATEGORY (Ti-Ta)	CLEAR DAY 2000 Btu/ft <sup>2</sup> ·d	MILDLY CLOUDY 1500 Btu/ft <sup>2</sup> ·d	CLOUDY DAY 1000 Btu/ft <sup>2</sup> ·d
A (-5°C)	29	23	16	A (-9°F)	28	22	15
B (5°C)	23	16	10	B (9°F)	22	15	9
C (20°C)	14	8	3	C (36°F)	14	8	2
D (50°C)	2			D (90°F)	2		
E (80°C)				E (144°F)			

A-Pool Heating (Warm Climate) B-Pool Heating (Cool Climate) C-Water Heating (Warm Climate) D-Water Heating (Cool Climate) E-Air Conditioning

Original Certification Date: June 4, 2007

**COLLECTOR SPECIFICATIONS**

**Gross Area:** 2.428 m<sup>2</sup> 26.14 ft<sup>2</sup>  
**Dry Weight:** 37 kg 82 lb  
**Test Pressure:** 0 kPa 0 psig

**Net Aperture Area:** 2.211 m<sup>2</sup> 23.80 ft<sup>2</sup>  
**Fluid Capacity:** 1 gal

**COLLECTOR MATERIALS**

**Frame:** Aluminum Extrusion  
**Cover (Outer):** Tempered Glass  
**Cover (Inner):** None  
**Absorber Material:** Tube - / Plate - Aluminum  
**Absorber Coating:** Powder coating  
**Insulation (Side):** Polyisocyanurate  
**Insulation (Back):** Polyisocyanurate

**PRESSURE DROP**

Flow		Δ P	
ml/s	gpm	Pa	in H <sub>2</sub> O
25000	396.51	69	0.28
50000	793.02	280	1.12
100000	1586.04	1125	4.51

**TECHNICAL INFORMATION**

**Efficiency Equation [NOTE: Based on gross area and (P) = Ti-Ta]**

	<b>Y Intercept</b>	<b>Slope</b>	
<b>SI Units:</b> $\eta = 0.489 - 6.8242 (P)/I - 0.0043 (P)^2/I$	0.49	-6.9913	W/m <sup>2</sup> ·°C
<b>IP Units:</b> $\eta = 0.489 - 1.2026 (P)/I - 0.0004 (P)^2/I$	0.49	-1.232	Btu/hr·ft <sup>2</sup> ·°F

**Incident Angle Modifier [(S) = 1/cos θ - 1, 0° ≤ θ ≤ 60°]**

$K_{\alpha} = 1.0 - 0.1084 (S) - 0.1851 (S)^2$   
 $K_{\alpha} = 1.0 - 0.09 (S)$  (Linear Fit)

**Model Tested:** 1500GS

**Test Fluid:** Air

**Test Flow Rate:** 40 l/s 85.0 scfm

**REMARKS:**

June, 2007

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