

**OG-100 ICC-SRCC™ CERTIFIED SOLAR COLLECTOR # 10001779**


**SOLAR RATING  
& CERTIFICATION  
CORPORATION™**

Supplier:  
**SunEarth, Inc.**  
8425 Almeria Avenue  
Fontana, CA 92335 USA  
www.sunearthinc.com  
Reference Standard:  
**SRCC Standard 100-2010-08**

Brand: CopperHeart  
Model: CP-40  
Collector Type: ICS Glazed  
Certification #: 10001779  
Original Certification: January 25, 2013  
Renewal Expiration Date: October 01, 2022  
Certifications must be renewed annually.

This solar collector has been evaluated and certified by the Solar Rating & Certification Corporation™ (ICC-SRCC™), an ISO/IEC 17065 accredited and EPA recognized Certification Body, in accordance with the SRCC OG-100 Certification Program, as defined in SRCC OG-100, Operating Guidelines and Minimum Standards for Certifying Solar Collectors. This award of certification is subject to all terms and conditions of the current OG-100 Program Agreement and the documents incorporated therein by reference. This document must be reproduced in its entirety.

**COLLECTOR THERMAL PERFORMANCE RATINGS**

Kilowatt-hours (thermal) Per Panel Per Day				Thousands of Btu Per Panel Per Day			
Climate -> Category (Ti-Ta)	High Radiation (6.3 kWh/m².day)	Medium Radiation (4.7 kWh/m².day)	Low Radiation (3.1 kWh/m².day)	Climate -> Category (Ti-Ta)	High Radiation (2000 Btu/ft².day)	Medium Radiation (1500 Btu/ft².day)	Low Radiation (1000 Btu/ft².day)
A (-5 °C)	9.8	7.6	5.4	A (-9 °F)	33.4	25.9	18.4
B (5 °C)	7.6	5.4	3.2	B (9 °F)	25.9	18.4	10.9
C (20 °C)	4.4	2.2	0.0	C (36 °F)	15.0	7.5	0.0
D (50 °C)	0.0	0.0	0.0	D (90 °F)	0.0	0.0	0.0
E (80 °C)	0.0	0.0	0.0	E (144 °F)	0.0	0.0	0.0

A- Pool Heating (Warm Climate) B- Pool Heating (Cool Climate) C- Water Heating (Warm Climate) D- Space & Water Heating (Cool Climate) E- Commercial Hot Water & Cooling

**TECHNICAL RESULTS**

Tested in accordance with: TM-1

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

SI UNITS:		$\eta = 0.674 - 5.228(P/G)$					
IP UNITS:		$\eta = 0.674 - 0.921(P/G)$					
Incident Angle Modifier $K_{\tau\alpha} = 1 - 0.1 [(1/\cos \theta) - 1]$							
$\theta$	10 <sup>0</sup>	20 <sup>0</sup>	30 <sup>0</sup>	40 <sup>0</sup>	50 <sup>0</sup>	60 <sup>0</sup>	70 <sup>0</sup>
$K_{\tau\alpha}$	1.00	0.99	0.99	0.97	0.94	0.90	0.81
Impact Safety Rating: 11							

**COLLECTOR SPECIFICATIONS**

Collector and Storage Vessel Specifications

Gross Area:	2.319 m²	24.96 ft²	Dry Weight:	124.0 kg	273.4 lb
Net Aperture Area:	2.042 m²	21.98 ft²	Fluid Capacity:	133.0 liter	35.1 gal

REMARKS:

*Shawn Martin*

Technical Director

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Please verify certification is active on the SRCC website [www.solar-rating.org](http://www.solar-rating.org).

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### 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.

