



SOLAR RATING
& CERTIFICATION
CORPORATION™

OG-100 ICC-SRCC™ CERTIFIED SOLAR COLLECTOR # 2010019E

SUPPLIER:

Dimas SA
2nd KLM Argos-Nafplion
Argos, 21200 Greece
www.dimas-solar.gr

BRAND:

Dimas SA
ENERGY+ARGO 20

COLLECTOR TYPE: Glazed Flat Plate

CERTIFICATION #: 2010019E

ORIGINAL CERTIFICATION: October 19, 2011

RENEWAL EXPIRATION DATE*: November 01, 2021

*Certifications must be renewed annually

Compliance with the following standard: **ICC-901/SRCC Standard 100-2015**

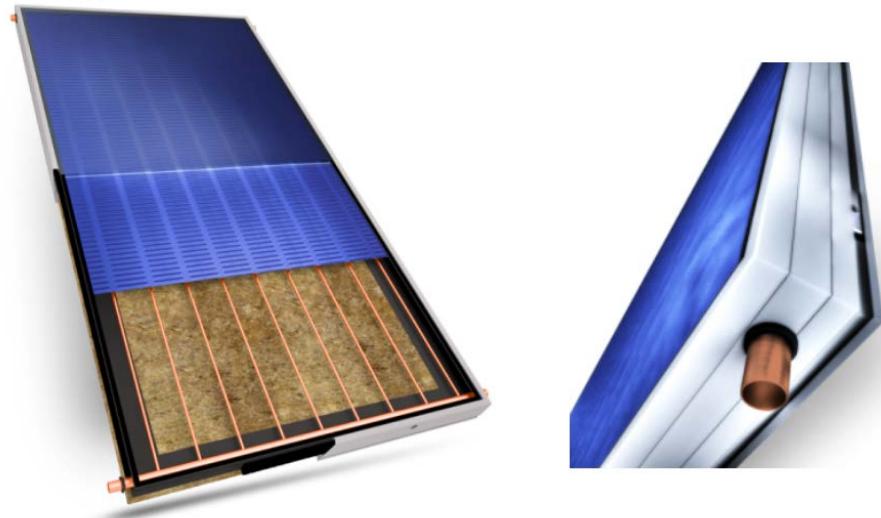
This solar collector listed below has been evaluated, rated and certified by the Solar Rating & Certification Corporation (ICC-SRCC™), an ISO/IEC 17065 accredited Certification Body, in accordance with the latest version of the ICC-SRCC *Rules for Solar Heating & Cooling Product Listing Reports*. This award of certification is subject to all terms and conditions of the ICC-SRCC OG-100 and the documents incorporated therein by reference. Thermal performance ratings calculated in accordance with standard OG-100 rating conditions are provided below. This document must be reproduced in its entirety.

OG-100 SOLAR THERMAL COLLECTOR STANDARD PERFORMANCE RATINGS

Kilowatt-hours (thermal) Per Collector ¹ Per Day				Thousands of Btu Per Collector ¹ Per Day			
Climate →	High Radiation (6.3 kWh/m ² •day)	Medium Radiation (4.7 kWh/m ² •day)	Low Radiation (3.1 kWh/m ² •day)	Climate →	High Radiation (2000 Btu/ft ² •day)	Medium Radiation (1500 Btu/ft ² •day)	Low Radiation (1000 Btu/ft ² •day)
Category (T _i -T _a)				Category (T _i -T _a)			
A (-5°C)	9.58	7.26	4.95	A (-9°F)	32.70	24.78	16.89
B (5°C)	8.70	6.38	4.07	B (9°F)	29.70	21.78	13.90
C (20°C)	7.32	5.06	2.83	C (36°F)	24.96	17.28	9.64
D (60°C)	4.83	2.74	0.83	D (90°F)	16.47	9.33	2.84
E (80°C)	2.59	0.87	0.00	E (144°F)	8.83	2.98	0.00

1. See tested collector details below.

COLLECTOR DESCRIPTION: Glazed Flat Plate Collector



Please verify certification is active on SRCC website www.solar-rating.org
© Solar Rating and Certification Corporation™ (ICC-SRCC) 3060 Saturn Street, Suite 100, Brea, CA 92821





SOLAR RATING
& CERTIFICATION
CORPORATION™

TEST TECHNICAL RESULTS

ISO Efficiency Equation: [Note: Based on gross area and $(P)=T_i-T_a$, and in accordance with ISO 9806-2013]

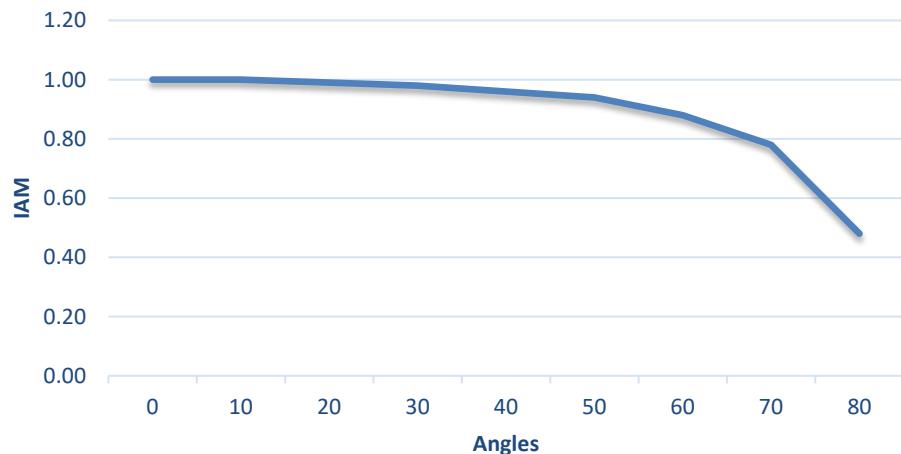
Second Order Thermal Efficiency Equation ¹		Linearized Thermal Efficiency Equation ¹			
SI UNITS	$\text{ETA} = 0.7650 - 3.9562(\text{P}/\text{G}) - 0.00844(\text{P}^2/\text{G})$	Y Intercept:	0.7647	Slope:	3.9647
IP UNITS	$\text{ETA} = 0.7650 - 0.6967(\text{P}/\text{G}) - 0.00083(\text{P}^2/\text{G})$	Y Intercept:	0.7647	Slope:	0.6982

1: Thermal efficiency equations per ISO 9806-2013 provided in curve forms. The curve or second order fit efficiency equation should be considered to be a more representative representation of the collector performance test. The linearized efficiency equation is provided for use with incentive programs, regulations and software that require the "slope" and "intercept" terms to describe collector performance.

Longitudinal Incident Angle Modifier (IAM)

θ	10°	20°	30°	40°	50°	60°	70°
$K_{T\alpha}$	1.00	0.99	0.98	0.96	0.94	0.88	0.78

Incident Angle Modifier



Please verify certification is active on SRCC website www.solar-rating.org
© Solar Rating and Certification Corporation™ (ICC-SRCC) 3060 Saturn Street, Suite 100, Brea, CA 92821





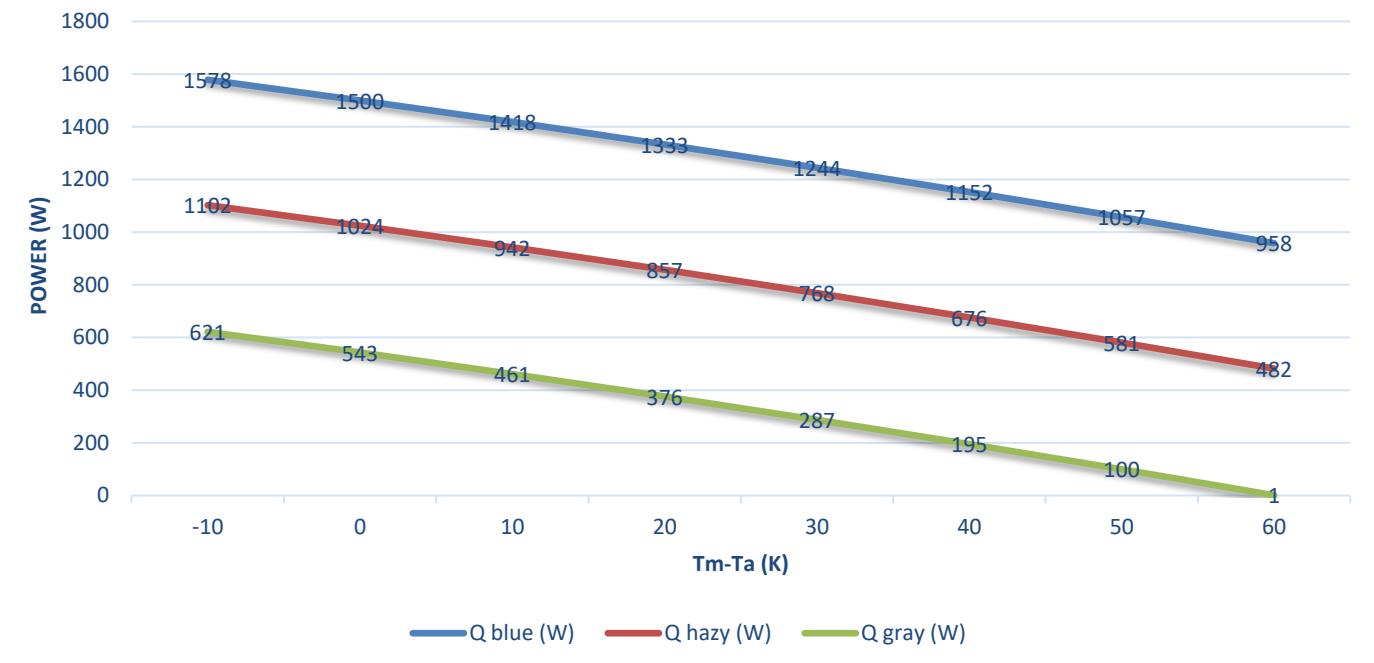
SOLAR RATING
& CERTIFICATION
CORPORATION™

COLLECTOR POWER OUTPUT (W)

Note: Based on Standard Rating Conditions (SRC) and T_m-T_a in accordance with ISO 9806-2017

T_m-T_a (K)	Blue sky	Hazy sky	Grey sky
-10	1578	1102	621
0	1500	1024	543
10	1418	942	461
20	1333	857	376
30	1244	768	287
40	1152	676	195
50	1057	581	100
60	958	482	1
Q peak	1500 W		

Power Output



Please verify certification is active on SRCC website www.solar-rating.org
© Solar Rating and Certification Corporation™ (ICC-SRCC) 3060 Saturn Street, Suite 100, Brea, CA 92821





SOLAR RATING
& CERTIFICATION
CORPORATION™

LABORATORY TEST INFORMATION

Test Lab:	Institute of Thermodynamics and Thermal Engineering (ITW)	Test Report No.	10COL910-3
Tested in Accordance With:	EN ISO 12975-2:2006 & ICC 901/SRCC 100:2015	Test Report Issue Date:	April 15th, 2020

TESTED COLLECTOR SPECIFICATIONS

Gross Area:	2.02 m ²	21.743 ft ²	Gross Depth:	0.085 m	0.278 ft
Gross Length:	2.006 m	6.58 ft	Gross Width:	1.007 m	3.303 ft
Maximum Design Pressure*:	1600 KPa	232 psi	Design Flow Range*:	72 l/m ² h	3.2 gpm
Standard Stagnation Temp	207 °C	405 °F	Dry Weight:	38 Kg.	83.8 Lbs.
HT Fluid Compatibility	Water, Propylene Glycol Mix		Fluid Capacity:	4.5 Lt.	1.19 Gal.
Impact Safety Rating:	11- No testing required since tempered glass cover used				

ICC-SRCC OG100 Certification Label:



This product certified by the
Solar Rating & Certification Corporation™
www.Solar-Rating.org

ICC-SRCC Certification Number: 2010019E
High Solar Radiation Climate
Rating in Category C

7.32 kWh/day / 24.96 kBtu/day

Please verify certification is active on SRCC website www.solar-rating.org
© Solar Rating and Certification Corporation™ (ICC-SRCC) 3060 Saturn Street, Suite 100, Brea, CA 92821





SOLAR RATING
& CERTIFICATION
CORPORATION™

REMARKS AND CONDITIONS OF CERTIFICATION:

1. The collector listed in this ICC-SRCC OG-100 certification has been evaluated to the ICC 901/SRCC100-2015 standard and has been found to be in compliance.
2. OG-100 Standard Performance Ratings have been calculated for the tested components at the standardized conditions established by the OG-100 program. Actual results will vary based on the specific usage, installation and local environmental conditions.
3. Collectors listed in this ICC-SRCC OG-100 certification must display a label within the installation and operation manual(s) in accordance with the *ICC-SRCC Certification, Trademark and Certificate Policy*, which is available on the ICC-SRCC website.
4. The listed collector must be installed in accordance with the manufacturer's published installation instructions and applicable codes. OG-100 certifications do not include mounting hardware and appurtenances. Solar thermal collectors must be mounted in accordance with the requirements of the collector and mounting hardware manufacturers to comply with local codes for structural loading for wind, seismic, snow and other loads.
5. Solar thermal collectors and mounting hardware and appurtenances must comply with all local codes and requirements for fire resistance.
6. Solar thermal collectors must be used with the heat transfer fluids listed in this document.
7. Solar thermal collector manufactured by Dimas SA i, Greece under a quality control program subjected to periodic evaluation in accordance with the requirements of ICC-SRCC.

Shawn Martin
Vice President of Technical Services, ICC-SRCC

Please verify certification is active on SRCC website www.solar-rating.org
© Solar Rating and Certification Corporation™ (ICC-SRCC) 3060 Saturn Street, Suite 100, Brea, CA 92821

