



SOLAR RATING  
& CERTIFICATION  
CORPORATION

**CERTIFIED SOLAR COLLECTOR**

SUPPLIER:  
**Artic Solar, Inc.**  
5191 Shawland Rd  
Jacksonville, FL 32254 USA  
www.articsolar.com  
In Accordance with:  
**SRCC Standard 600-2013-01**

BRAND: Emperor  
MODEL: LH-3-2M  
COLLECTOR TYPE: Concentrating  
CERTIFICATION #: 10002020  
Original Certification: August 15, 2016  
Expiration Date: May 16, 2028

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

COLLECTOR SPECIFICATIONS			As determined by third party testing agency		
Gross Area:	2.700 m <sup>2</sup>	29.06 ft <sup>2</sup>	Dry Weight:	37 kg	82 lb
Net Aperture Area:	2.410 m <sup>2</sup>	25.94 ft <sup>2</sup>	Fluid Capacity:	2.0 liter	0.5 gal
Absorber Area:	1.506 m <sup>2</sup>	16.21 ft <sup>2</sup>	Test Pressure:	786 kPa	114 psi

TECHNICAL INFORMATION				Tested in accordance with: ISO 9806:2013			
ISO Efficiency Equation [NOTE: Based on aperture area] $Q/A_a = F'(\tau\alpha)_{en} K_{ob}(\theta) G_b + F'(\tau\alpha)_{en} K_{od}(\theta) G_d - c_1(t_m - t_a) - c_2(t_m - t_a)^2 - c_3 u(t_m - t_a) + c_4(E_L - \sigma t_a^4) - c_5 dt_m/dt - c_6 uG$							
$F'(\tau\alpha)_{en}$	$K_{od}$	$C_1$	$C_2$	$C_3$	$C_4$	$C_5$	$C_6$
0.611	0.000	1.4200	0.0208	0.000	0.0	6653	0.0000
$K(\theta) = 1 - b_o [1/\cos(\theta) - 1]$				$b_{oL} =$			
IAM	10°	20°	30°	40°	50°	60°	70°
$K_{eL}(\theta)$	0.99	0.98	0.95	0.91	0.87	0.89	0.80
Test Fluid:	Water	Test Flow Rate (based on aperture area):	0.0200 kg/(s m <sup>2</sup> )		14.75 lb/(hr ft <sup>2</sup> )		

REMARKS:

*Shawn Martin*

Technical Director

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Please verify certification is active on the SRCC website.  
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