



SOLAR RATING & CERTIFICATION CORPORATION

**CERTIFIED SOLAR SYSTEM**

SUPPLIER:  
**Next Generation Energy, LLC**  
 75 Waneka Parkway  
 Lafayette, CO 80026 USA  
 www.ngeus.com

In Accordance with:  
**ICC 900/SRCC Standard 300-2015**

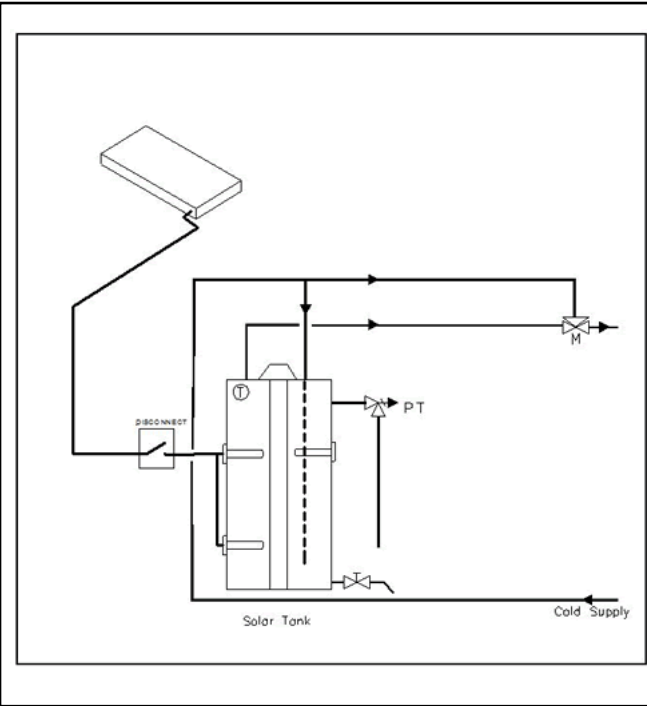
BRAND: Sun Bandit  
 MODEL: SBES-100NG/LP-200  
 SYSTEM TYPE: ICS, Direct  
 CERTIFICATION #: 30004223  
 Original Certification: October 06, 2016  
 Expiration Date: September 28, 2021

The solar system 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-300, Operating Guidelines for Certifying Solar Water Heating Systems, 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.

Description: Unglazed Flat Plate, -46 °C -50 °F, Electricity, GAMA listed gas tank, Other, Tank high limit

Single-day Rating		SINGLE DAY RATING CONDITIONS	SI Units	Inch-Pound Units
Solar Energy Factor (SEF <sub>D</sub> )	Solar Fraction (SF <sub>D</sub> )	System Set Temperature	57.2 °C	135 °F
0.7	0.18	Environmental Temperature	19.7 °C	67.5 °F
		Ambient Temperature Profile Average	14.4 °C	58 °F
		Water Mains Temperature	14.4 °C	58 °F
		Delivered Load	43.3 MJ/day	41,045 Btu/day
		Solar Irradiance	4,733 Wh/m <sup>2</sup> -day	1,500 Btu/ft <sup>2</sup> -day

Single-day Rating Conditions:  
 SEF<sub>D</sub> = Solar Energy Factor (info link)  
 SF<sub>D</sub> = Solar Fraction (info link)



Storage Tank(s)	
Solar Tank Vol (l)	Solar Tank Vol (gal)
379	100
Approximate Collector Area: 7.8 m <sup>2</sup> , 83.4 ft <sup>2</sup>	

The solar water system listed here has been certified by the SRCC as meeting the minimum standards for testing, installation, operation, maintenance, performance, reliability and safety as specified in SRCC Document OG-300. Thermal performance ratings are based on the successful durability and performance testing of a sample collector, where said tests have been conducted by an independent laboratory approved and listed by the SRCC. The system has been modeled using the computer simulation program TRNSYS to calculate the ratings.

Before the Supplier can make any change in design, materials, specifications, parts, or construction, the change(s) must be reported to the SRCC for evaluation of continued certification.

REMARKS:

*Shawn Martin*  
 Technical Director

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 Please verify certification is active on the SRCC website.  
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Only the following options for the collector array are approved:

Option	Collector Panel Manufacturer	Collector Panel Request Number	Collector Panel Model Number	Collector Panel Name	Quantity	Total Panel area(m <sup>2</sup> )	Total Panel area(ft <sup>2</sup> )
1	Next Generation Energy, LLC	10001952	SBES-Collector Model A	Sun Bandit	1	7.75	83.42

Option	Collector Panel Manufacturer	Collector Panel Request Number	Collector Panel Model Number	Collector Panel Name	Quantity	Total Panel area(m <sup>2</sup> )	Total Panel area(ft <sup>2</sup> )
2	Next Generation Energy, LLC	10002040	SBES-Collector Model B	Sun Bandit	1	7.75	83.42



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