## CERTIFIED SOLAR COLLECTOR

	CERTIFICATION	
RATIN	SRCC	
HIIS		
	ESTABLISHED 1980	

SUPPLIER: GLE Solar Energy - Great Lakes Electric LLC 5744 Cleveland Ave Stevensville, MI 49127 USA www.gl-electric.com

## BRAND: GLE MODEL: SHP31 COLLECTOR TYPE: ICS Gi

MODEL:	SHP310
COLLECTOR TYPE:	ICS Glazed
CERTIFICATION #:	2009092D
Original Certification:	March 06, 2012
Expiration Date:	November 23, 2013

The solar collector listed below has been evaluated by the Solar Rating & Certification Corporation™ (SRCC™) 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.

COLLECTOR THERMAL PERFORMANCE RATING										
Kilowatt-hours (thermal) Per Panel Per Day					Thousands of Btu Per Panel Per Day					
Climate ->	High Radiation	tion Medium Radiation	Low Radiation	Climate ->	High Radiation (2000 Btu/ft².day)	Medium Radiation (1500 Btu/ft².day)	Low Radiation (1000 Btu/ft².day)			
Category (Ti-Ta)	(6.3 kWh/m².day)	(4.7 kWh/m².day)	(3.1 kWh/m².day)	Category (Ti-Ta)						
A (-5 °C)	5.0	3.9	2.9	A (-9 °F)	17.0	13.5	9.7			
B (5 °C)	4.6	3.5	2.4	B (9 °F)	15.6	12.0	8.3			
C (20 °C)	0.9	2.9	1.8	C (36 °F)	3.1	9.8	6.1			
D (50 °C)	2.6	1.6	0.5	D (90 °F)	9.0	5.4	1.7			
E (80 °C)	1.3	0.3	0.0	E (144 °F)	4.6	1.0	0.0			
	A Pool Hosting (Warm Climate) P. Pool Hosting (Cool Climate) C. Water Hosting (Warm Climate)									

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

COLLECTOR SPECIFICA	TIONS		Collector and Storage Vessel Specifications			
Gross Area:	<b>Gross Area:</b> 1.737 m <sup>2</sup>		Dry Weight:	77 kg	170 lb	
Net Aperture Area:	0.861 m <sup>2</sup>	9.27 ft <sup>2</sup>	Fluid Capacity:	64.0 liter	16.9 gal	
Absorber Area:	0.855 m²	9.20 ft <sup>2</sup>	Test Pressure:	1103 kPa	160 psi	

TECHNICAL INFORMATION		Tested in accordance with: ISO 9806					
ISO Efficiency Equation [NOTE: Based on gross area and (P)=Ti-Ta]							
SI UNITS:	η= 0.424 -	1.163(P/G)					
IP UNITS:	η= 0.424 -	0.205(P/G)					

Incident Angle Modifier $K_{T\alpha} = 1 - 0.1 [(1/\cos \theta)-1]$						Test Fluid:	Water				
θ	10	20	30	40	50	60	70	Simulated Flow Rate:	0.0201 kg/(s m <sup>2</sup> )	14.82 lb/(hr ft²)	
Κτα								Impact Safety Rating: 0			

**REMARKS:** 

Technical Director



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