



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

MODEL: SHP410

COLLECTOR TYPE: ICS Glazed

CERTIFICATION #: 2009092C

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 (6.3 kWh/m².day)	Medium Radiation (4.7 kWh/m².day)	Low Radiation (3.1 kWh/m².day)	Climate ->	High Radiation (2000 Btu/ft².day)	Medium Radiation (1500 Btu/ft².day)	Low Radiation (1000 Btu/ft².day)		
Category (Ti-Ta)				Category (Ti-Ta)					
A (-5 °C)	6.5	5.1	3.7	A (-9 °F)	22.1	17.5	12.7		
B (5 °C)	5.9	4.6	3.2	B (9 °F)	20.2	15.6	10.8		
C (20 °C)	5.1	3.7	2.3	C (36 °F)	17.3	12.7	7.9		
D (50 °C)	3.4	2.0	0.6	D (90 °F)	11.6	7.0	2.1		
E (80 °C)	1.7	0.4	0.0	E (144 °F)	5.8	1.2	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

COLLECTOR SPECIFICA	ATIONS		Collector and Storage Vessel Specifications			
Gross Area:	2.266 m²	24.39 ft²	Dry Weight:	90 kg	198 lb	
Net Aperture Area:	1.196 m²	12.87 ft²	Fluid Capacity:	87.0 liter	23.0 gal	
Absorber Area:	1.049 m²	11.29 ft²	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 -					
IP UNITS:	η= 0.424 -	0.205(P/G)				

Incident Angle Modifier Kτα = 1 – 0.1 [(1/cos θ)-1]						Test Fluid: Water				
θ	10	20	30	40	50	60	70	Simulated Flow Rate: 0.0201 kg/(s m²)		14.82 lb/(hr ft²)
Κτα								Impact Safety Rating: 0		

REMARKS:

Jin Huggins
Technical Director

SRCC OG-100 CERTIFIED

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