



SOLAR RATING & CERTIFICATION CORPORATION

CERTIFIED SOLAR COLLECTOR

SUPPLIER:
Westech Solar Technology Wuxi Co., Ltd.
 No. 15 Liutang Road, Hudai Industrial North Park
 Wuxi, JIANGSU 214161 China
 www.westechsolar.com
 In Accordance with:
SRCC Standard 100-2010-08

BRAND: Westech
 MODEL: WT-B58-20
 COLLECTOR TYPE: Tubular
 CERTIFICATION #: 2012005D
 Original Certification: June 13, 2012
 Expiration Date: July 28, 2023

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 THERMAL PERFORMANCE RATING							
Kilowatt-hours (thermal) Per Panel Per Day				Thousands of Btu Per Panel 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 (Ti-Ta)				Category (Ti-Ta)			
A (-5 °C)	8.8	6.6	4.5	A (-9 °F)	30.0	22.6	15.3
B (5 °C)	8.4	6.2	4.1	B (9 °F)	28.6	21.3	13.9
C (20 °C)	7.7	5.6	3.4	C (36 °F)	26.4	19.1	11.8
D (50 °C)	6.6	4.4	2.3	D (90 °F)	22.4	15.1	7.9
E (80 °C)	5.3	3.2	1.3	E (144 °F)	18.2	10.9	4.3

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 SPECIFICATIONS					
Gross Area:	3.431 m ²	36.93 ft ²	Dry Weight:	73 kg	161 lb
Net Aperture Area:	1.886 m ²	20.30 ft ²	Fluid Capacity:	2.0 liter	0.5 gal
Absorber Area:	1.637 m ²	17.62 ft ²	Test Pressure:	900 kPa	131 psi

TECHNICAL INFORMATION			Tested in accordance with: ISO 9806:1994		
ISO Efficiency Equation [NOTE: Based on gross area and (P)=Ti-Ta]					
SI UNITS:	$\eta = 0.370 - 1.07480(P/G) - 0.00196(P^2/G)$		Y Intercept:	0.371	Slope: -1.225 W/m ² .°C
IP UNITS:	$\eta = 0.370 - 0.18943(P/G) - 0.00019(P^2/G)$		Y Intercept:	0.371	Slope: -0.216 Btu/hr.ft ² .°F

Transverse Incident Angle Modifier								Longitudinal Incident Angle Modifier at 50°:		
θ	10	20	30	40	50	60	70	Test Fluid:	Water	
K_{τα}	1.02	1.07	1.16	1.29	1.42	1.42	0.45	Test Mass Flow Rate:	0.0111 kg/(s m ²)	8.20 lb/(hr ft ²)

REMARKS:

Jen Higgins

Technical Director

Print Date: February, 2016 Page 1 of 3
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ADDITIONAL INFORMATION (click here to return to the rating page)			
Test Lab:	Fraunhofer Institute for Solare Energy Systems	Test Date:	July 28, 2011
Test Report Number:	KTB Nr.: 2011-21	Test Location:	outdoors

SOLAR COLLECTOR CONSTRUCTION DETAILS					
Header Enclosure:					
Gross Length:	2.030 m	Gross Width:	1.690 m	Gross Depth:	
Tube Bank:					
Gross Length:		Gross Width:			

COLLECTOR MATERIALS					
Outer Cover:	Glass sheet	Enclosure back:	Aluminum	Back Insulation:	,
Inner Cover:	Glass Tube	Enclosure side:	Aluminum	Side Insulation:	,
Absorber Description:		Flow Pattern:			
Riser Tube:		Copper	Fin:		
Absorber Coating:		Selective	Tube to fin connection		

GLAZING	Outer Cover	Inner Cover
Material:	Glass sheet	Glass Tube
Surface Characteristics:		
Thickness:	1.6 mm	1.6 mm
Transmissivity:		
Gross Tube Length (uninstalled):	1.800 m	
Diameter:	0.058 m	
Tube Glazing to Header Enclosure Seal:		
Reflector Shape:		Reflector Material:



Print Date: February, 2016 Page 2 of 3
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ABSORBER					
Header Material:		Header OD:		Header Wall:	
Riser Tube Material:	Copper	Riser Tube OD:		Riser Tube Wall Thickness:	
Fin Material:		Fin Thickness:	0.30 mm		
Flow Pattern:		Number of Flow Tubes / Heat Pipes:	20	Tube / Heat Pipe Spacing:	
Number of absorber tubes:	20	Flow Tube to Fin Bond:		Length of Flow Path:	1.74 m
Length of Flow Path:	1.74 m	Riser to Fin/Plate Bond:			

INSULATION:					
Location	Type	Thickness	Location	Type	Thickness
Back – Top Layer:			Sides – Inner Layer:		
Back – Bottom Layer:			Sides – Outer Layer:		
Enclosure Fastening Methods:			Header Enclosure:		

Power Output per Collector(W) [Ti-Ta, G = 1000 W/m²]				
0	10	30	50	70

PRESSURE DROP				
Flow	ΔP		Flow	ΔP
ml/s	Pa		gpm	in H ₂ O
20			0.32	
50			0.79	
80			1.27	



Print Date: February, 2016 Page 3 of 3
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