


APPLICATION FOR SOLAR COLLECTOR CERTIFICATION

Collector Documentation Form

Solar Collector(SW-SC-58/2100-30P)

Vacuum Tubes		
Models	Φ58×2100	
Material	3.3 high borosilicon glass tube	
Weight	2.29±0.18kg	
Outer tube diameter	Φ58±0.7mm	
Inner tube diameter	Φ47±0.7mm	
Outer Tube thickness	1.6±0.15mm	
Inner tube thickness	1.6±0.15mm	
Tubes length	2112±4mm	
Vacuum tube with Heat Pipe		
Heat Pipe:		
Material: Copper	Heat Transfer Fluid: Water	Head diameter: 14mm
Material of coating	Al N/Al	
Absorptance	0.91~0.93	
Emittance	0.04~0.06	
Vacuum	$P \leq 5 \times 10^{-3} \text{pa}$	
Transmittance of Outer Tube	0.91	
Stagnation temperature (height)	270℃	
Heat-loss coefficient	$\leq 0.6 \text{w/ m}^2 \cdot \text{℃}$	
Bearing hailstone ability	hailstone diameterΦ25mm	




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Solar Collector(SW-SC-58/2100-30P)		
Overall Dimensions:		
Length <u>2290mm</u>	Width <u>1550mm</u>	Depth <u>1700mm</u>
Overall Gross Front Area: (Length x width)	<u>5.152m³</u>	
Transparent Frontal Dimensions:		
Length <u>2250mm</u>	Width <u>2060mm</u>	Area <u>4.635mm</u>
Collector Weight:	<u>130kg</u>	
Frame Materials	<u>Stainless Steel</u>	
Insulation: (Back and Sides):		
Material(s) : <u>Rock wool with Polyurethane foam</u>		Density : <u>>35kg/m³</u>
Collector Volumetric Fluid Capacity:	<u>1833cm³</u>	
Normal Operating Temperature Range:	<u>4-99°C</u>	
Fluid Flow Rate:	<u>1.5L/S</u>	
Maximum pressure	<u>0.6MPA</u>	

Sunworld Tech. Dept.:

Engineer



Date:

Quality control Dept.

Engineer

Date:

Solar Collector(SW-SC-70/2000-30P)

Vacuum Tubes		
Models	$\Phi 70 \times 2000$	
Material	3.3 high borosilicon glass tube	
Weight	3.3±0.18kg	
Outer tube diameter	$\Phi 70 \pm 0.7\text{mm}$	
Inner tube diameter	$\Phi 58 \pm 0.7\text{mm}$	
Outer Tube thickness	1.8±0.15mm	
Inner tube thickness	1.6±0.15mm	
Tubes length	2012±4mm	
Vacuum tube with Heat Pipe		
Heat Pipe:		
Material: Copper	Heat Transfer Fluid: Water	Head diameter: 14mm
Material of coating	Al N/Al	
Absorptance	0.91~0.93	
Emittance	0.04~0.06	
Vacuum	$P \leq 5 \times 10^{-3}\text{pa}$	
Transmittance of Outer Tube	0.91	
Stagnation temperature (height)	270℃	
Heat-loss coefficient	$\leq 0.6\text{w/ m}^2 \cdot \text{℃}$	
Bearing hailstone ability	hailstone diameter $\Phi 25\text{mm}$	

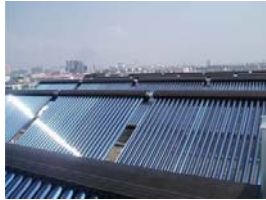


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Solar Collector(SW-SC-70/2000-30P)		
Overall Dimensions:		
Length 2740mm	Width 1470mm	Depth 1620mm
Overall Gross Front Area: (Length x width)		5.152m3
Transparent Frontal Dimensions:		
Length 2700mm	Width 1960mm	Area 5.292mm
Collector Weight:	170kg	
Frame Materials	Steel	
Insulation: (Back and Sides):		
Material(s) : Rock wool with Polyurethane foam		Density : >35kg/m3
Collector Volumetric Fluid Capacity:	2200cm3	
Normal Operating Temperature Range:	4-99°C	
Fluid Flow Rate:	1.5L/S	
Maximum pressure	0.6MPA	

Sunworld Tech. Dept.:

Engineer

Date:

Quality control Dept.

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Date: