

Annex to Solar Keymark Certificate					Licence Number		011-7S3241 F				
					Date issued		2025-04-04				
					Issued by		DIN CERTCO				
Licence holder		ZHEJIANG KESUN NEW ENERGY CO., LTD.			Country		China				
Brand (optional)		ENSUN			Web		www.kesunsolar.com				
Street, Number		No.28-1 Anren Road, Jianshan New District			E-mail		alan@ensunchina.com				
Postcode, City		Haining City, Zhejiang Province			Tel		+86 13586432400				
Collector Type					Flat plate collector						
Collector name	Gross area (A _G) m ²	Gross length mm	Gross width mm	Gross height mm	Power output per collector G _b = 850 W/m ² , G _d = 150 W/m ² & u = 1.3 m/s θ _m - θ _a						
					0 K W	10 K W	30 K W	50 K W	70 K W	100 K W	
FPC2.0	2.00	2,000	1,000	80	1,443	1,382	1,233	1,050	831	439	
FPC2.5	2.50	2,000	1,250	80	1,803	1,727	1,541	1,312	1,038	549	
Power output per m ² gross area					721	691	617	525	415	220	
Performance parameters test method		Steady state - outdoor									
Performance parameters (related to A _G)		η ₀ , b	a ₁	a ₂	a ₃	a ₄	a ₅	a ₆	a ₇	a ₈	K _d
Units		-	W/(m ² K)	W/(m ² K ²)	J/(m ³ K)	-	J/(m ² K)	s/m	W/(m ² K ²)	W/(m ² K ⁴)	-
Test results		0.731	2.83	0.022	0.000	0.00	6,427	0.000	0.00	0.000	0.91
Incidence angle modifier test method		Steady state - outdoor									
Incidence angle modifier		Angle	10°	20°	30°	40°	50°	60°	70°	80°	90°
Transversal		K _{θT, coll}	1.00	1.00	1.00	0.98	0.95	0.89	0.76	0.51	0.00
Longitudinal		K _{θL, coll}	1.00	1.00	1.00	0.98	0.95	0.89	0.76	0.51	0.00
Heat transfer medium for testing					Water						
Flow rate for testing (per gross area, A _G)					dm/dt		0.020	kg/(sm ²)			
Maximum temperature difference during thermal performance test					(θ _m - θ _a) _{max}		69.8	K			
Standard stagnation temperature (G = 1000 W/m ² ; θ _a = 30 °C)					θ _{stg}		190	°C			
Maximum operating temperature					θ _{max, op}		150	°C			
Maximum operating pressure					p _{max, op}		600	kPa			
Testing laboratory		Intertek Testing Services Shenzhen Ltd. Guangzhou Branch					http://www.intertek.com				
Test report(s)		240312066GZU-001					Dated		2025/4/4		
Comments of testing laboratory					Draft Ver. 6.2 (22.09.2021)						
<u>Example comment</u> Thermal performance parameters are given from model FPC2.5 which give smaller small value under the same maximum T_m-T_a.					 Stamp & signature						
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Supplementary Information

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Gross Thermal Yield in kWh/collector at mean fluid temperature ϑ_m

Collector name	Standard Locations ϑ_m	Athens			Davos			Stockholm			Würzburg		
		25°C	50°C	75°C	25°C	50°C	75°C	25°C	50°C	75°C	25°C	50°C	75°C
FPC2.0		2,331	1,707	1,099	1,807	1,252	752	1,326	877	512	1,440	951	546
FPC2.5		2,914	2,133	1,373	2,259	1,565	940	1,657	1,096	640	1,799	1,188	683