



Annex to Solar Keymark Certificate					Licence Number		011-7S3067 R				
					Date issued		2021-11-29				
					Issued by		DIN CERTCO				
Licence holder		Zhejiang shentai solar energy co.,ltd			Country		China				
Brand (optional)		Suntask, SHENTAI			Web		www.suntasksolar.com				
Street, Number		199, Lianhong Road, Yuanhua Industry zone			E-mail		info@suntasksolar.com				
Postcode, City		314416, Haining city/Zhejiang province			Tel		+86 573-87861111				
Collector Type					Evacuated tubular 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 $\vartheta_m - \vartheta_a$						
					0 K W	10 K W	30 K W	50 K W	70 K W	97 K W	
SR10	1.56	1,917	815	125	668	640	569	479	368	188	
SR12	1.85	1,917	965	125	791	758	674	567	435	223	
SR15	2.28	1,917	1,190	125	976	935	831	699	537	275	
SR16	2.43	1,917	1,265	125	1,037	994	884	743	571	292	
SR18	2.71	1,917	1,415	125	1,160	1,112	989	831	639	327	
SR20	3.00	1,917	1,565	125	1,283	1,229	1,093	919	706	361	
SR22	3.29	1,917	1,715	125	1,406	1,347	1,198	1,007	774	396	
SR24	3.58	1,917	1,865	125	1,529	1,465	1,303	1,095	842	431	
SR25	3.72	1,917	1,940	125	1,590	1,524	1,355	1,139	875	448	
SR28	4.15	1,917	2,165	125	1,775	1,701	1,513	1,271	977	500	
SR30	4.44	1,917	2,315	125	1,898	1,819	1,617	1,359	1,045	535	
Power output per m ² gross area					428	410	364	306	235	120	
Performance parameters test method		Steady state - outdoor									
Performance parameters (related to A _G)		η_0, b	a1	a2	a3	a4	a5	a6	a7	a8	Kd
Units		-	W/(m ² K)	W/(m ² K ²)	J/(m ³ K)	-	J/(m ² K)	s/m	W/(m ² K ⁴)	W/(m ² K ⁴)	-
Test results		0.421	1.626	0.016	0.000	0.000	12,674	0.000	0.000	0.000	1.105
Incidence angle modifier test method		Steady state - outdoor									
Incidence angle modifier		Angle	10°	20°	30°	40°	50°	60°	70°	80°	90°
Transversal		K _{gT, coll}	1.06	1.13	1.19	1.28	1.36	1.53	1.02	0.51	0.00
Longitudinal		K _{gL, coll}	1.00	1.00	0.99	0.98	0.95	0.88	0.75	0.50	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					$(\vartheta_m - \vartheta_a)_{max}$		66.77		K		
Standard stagnation temperature (G = 1000 W/m ² ; $\vartheta_a = 30^\circ\text{C}$)					ϑ_{stg}		220		°C		
Maximum operating temperature					$\vartheta_{max, op}$		250		°C		
Maximum operating pressure					p _{max, op}		1200		kPa		
Testing laboratory		Intertek Testing Services Shenzhen Ltd. Guangzhou Branch					http://www.intertek.com				
Test report(s)		201125033GZU-003					Dated		2021-11-29		
Comments of testing laboratory					Datasheet version: 6.1, 2019-09-26						
Above efficiency parameters come from test type SR10.											
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