


Annex to Solar Keymark Certificate					Licence Number		011-7S3231 F							
					Date issued		2024-04-25							
					Issued by		DINCERTCO							
Licence holder		SUPREME SOLAR PROJECTS PRIVATE			Country		India							
Brand (optional)		-			Web		http://www.supremesolar.in							
Street, Number		Plot No. 28-C, SY NO. 92, 93, 94 & 95 Doddaballapura Main Road, Veerapura Village Kasaba Hobli			E-mail		quality.dbr@supremesolar.in							
Postcode, City		561203 Bangalore			Tel		+91 9481949160							
Collector Type					Flat plate collector									
Collector name					Power output per collector									
					Gb = 850 W/m ² , Gd = 150 W/m ² & u = 1.3 m/s $\vartheta_m - \vartheta_a$									
					0 K	10 K	30 K	50 K	70 K	108 K				
					m ²	mm	mm	mm	mm	mm	mm			
1.5 m² FLAT PLATE COLLECTOR					1.50	1 500	1 000	101	921	845	680	499	301	0
Power output per m² gross area					614	563	454	333	200	0				
Performance parameters test method		Quasi dynamic												
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		0.615	4.93	0.014	0.000	0.00	13 940	0.000	0.00	0.0	0.99			
Incidence angle modifier test method		Quasi dynamic - outdoor												
Incidence angle modifier		Angle	10°	20°	30°	40°	50°	60°	70°	80°	90°			
Transversal		$K_{\theta T, coll}$	1.00	1.00	1.00	1.00	0.93	0.80	0.60	0.30	0.00			
Longitudinal		$K_{\theta L, coll}$	1.00	1.00	1.00	1.00	0.93	0.80	0.60	0.30	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					$(\vartheta_m - \vartheta_a)_{max}$	78	K							
Standard stagnation temperature (G = 1000 W/m²; $\vartheta_a = 30^\circ\text{C}$)					ϑ_{stg}	160	°C							
Maximum operating temperature					$\vartheta_{max, op}$	80	°C							
Maximum operating pressure					$p_{max, op}$	1000	kPa							
Testing laboratory		Institut für Gebäudeenergetik, Thermotechnik und Energiespeicherung (IGTE)					http://www.igte.uni-stuttgart.de							
Test report(s)		23COL1722 23COL1722Q					Dated		04.03.2024 04.03.2024					
Comments of testing laboratory					Ver. 6.2 (13.01.2022)									
Documented performance parameters are taken from 23COL1722					 Forschungs- und Testzentrum für Solaranlagen Institut für Thermodynamik und Wärmetechnik Universität Stuttgart Pfaffenwaldring 6, 70550 Stuttgart (Vaihingen)									
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