


Annex to Solar Keymark Certificate					Licence Number		011-7S597 F							
					Date issued		2020-05-05							
					Issued by		DIN CERTCO							
Licence holder		Reinhard Solartechnik GmbH			Country		Germany							
Brand (optional)					Web		http://www.reinhard-solartechnik.de							
Street, Number		Brückenstraße 2			E-mail		solar@reinhard-solartechnik.de							
Postcode, City		D-28857 Syke-Barrien			Tel		+49 (0)4242 80106							
Collector Type					Flat plate collector									
Collector name					Power output per collector									
					$G_b = 850 \text{ W/m}^2$, $G_d = 150 \text{ W/m}^2$ & $u = 1.3 \text{ m/s}$ $\vartheta_m - \vartheta_a$									
					0 K	10 K	30 K	50 K	70 K	125 K				
					W	W	W	W	W	W				
RST Sol 5					2.25	1 928	1 168	100	1 723	1 633	1 442	1 234	1 010	310
Power output per m² gross area					766	726	641	548	449	138				
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		0.774	3.90	0.009	0.000	0.00	10 290	0.000	0.00	0.0	0.93			
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	0.99	0.98	0.97	0.94	0.85	0.67	0.34	0.00			
Longitudinal		$K_{\theta L, coll}$	1.00	0.99	0.98	0.97	0.94	0.85	0.67	0.34	0.00			
Heat transfer medium for testing					Water									
Flow rate for testing (per gross area, A_G)					dm/dt		0.056		kg/(sm ²)					
Maximum temperature difference during thermal performance test					$(\vartheta_m - \vartheta_a)_{max}$		95		K					
Standard stagnation temperature (G = 1000 W/m²; $\vartheta_a = 30 \text{ }^\circ\text{C}$)					ϑ_{stg}		220		°C					
Maximum operating temperature					$\vartheta_{max, op}$		220		°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)		19COL1511 19COL1511Q					Dated		05.05.2020 05.05.2020					
Comments of testing laboratory					Datasheet version: 6.1, 2019-09-26									
					 Forschungs- und Testzentrum für Solaranlagen Institut für Thermodynamik und Wärmetechnik Universität Stuttgart Pfaffenwaldring 8, 70560 Stuttgart (Vaihingen)									
DIN CERTCO • Alboinstraße 56 • 12103 Berlin, Germany Tel: +49 30 7562-1131 • Fax: +49 30 7562-1141 • E-Mail: info@dincertco.de • www.dincertco.de														

