


Annex to Solar Keymark Certificate					Licence Number		011-7S2566 F							
					Date issued		2021-09-06							
					Issued by		DIN CERTCO							
Licence holder		GREENoneTEC Solarindustrie GmbH			Country		Austria							
Brand (optional)					Web		www.greenonetec.com							
Street, Number		Industriepark St. Veit, Energieplatz 1			E-mail		info@greenonetec.com							
Postcode, City		9300 St. Veit a.d. Glan			Tel		+43 (0)4212 28136-0							
Collector Type					Flat plate collector									
Collector name					Power output per collector									
					$G_b = 850 \text{ W/m}^2, G_d = 150 \text{ W/m}^2 \text{ \& } u = 1.3 \text{ m/s}$ $\vartheta_m - \vartheta_a$									
					0 K	10 K	30 K	50 K	70 K	108 K				
					m ²	mm	mm	mm	mm	mm				
					W	W	W	W	W	W				
GK 3803 S					7.91	2224	3557	135	6274	6036	5503	4894	4209	2699
GK 3133 S					13.17	2224	5920	135	10445	10049	9162	8149	7009	4494
Power output per m² gross area					793	763	696	619	532	341				
Performance parameters test method		Quasi dynamic												
Performance parameters (related to A_G)		$\eta_{0, b}$	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		0.803	2.888	0.012	0.000	0.00	9354	0.000	0.00	0.0	0.918			
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	0.97	0.95	0.91	0.83	0.68	0.21	0.00			
Longitudinal		$K_{\theta L, coll}$	1.00	0.99	0.97	0.95	0.91	0.83	0.68	0.21	0.00			
Heat transfer medium for testing					Water									
Flow rate for testing (per gross area, A_G)					dm/dt		0.020		kg/(sm²)					
Maximum temperature difference during thermal performance test					$(\vartheta_m - \vartheta_a)_{max}$		78		K					
Standard stagnation temperature (G = 1000 W/m²; $\vartheta_a = 30 \text{ }^\circ\text{C}$)					ϑ_{stg}		214		°C					
Maximum operating temperature					$\vartheta_{max, op}$		n.a.		°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)		15COL1257 15COL1257Q					Dated		28.08.2015 28.08.2015					
Comments of testing laboratory					Datasheet version: 6.1, 2019-09-26									
Documented performance parameters are taken from test report 15COL1257 (GK 3803 S) This data sheet replaces the data sheet issued on 28.08.2015 This data sheet is issued by version 6.1					 Forschungs- und Testzentrum für Solaranlagen Institut für Thermodynamik und Wärmetechnik Universität Stuttgart Pfaffenwaldring 6, 70560 Stuttgart (Vaihingen)									
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