

Annex to Solar Keymark Certificate					Licence Number		011-7S2473 F							
					Date issued		2023-11-02							
					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		A - 9300 St. Veit/Glan			Tel		+43 (0) 4212 28136-0							
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 $\vartheta_m - \vartheta_a$					
									0 K	10 K	30 K	50 K	70 K	111 K
					W	W	W	W	W	W	W			
FK8207N 4M MP					2.02	1,728	1,168	83	1,478	1,414	1,252	1,044	791	130
FK8257N 4M MP					2.51	2,148	1,168	83	1,837	1,757	1,555	1,297	982	162
FK8207L 4M MP					2.02	1,168	1,728	83	1,478	1,414	1,252	1,044	791	130
FK8257L 4M MP					2.51	1,168	2,148	83	1,837	1,757	1,555	1,297	982	162
Power output per m² gross area					732	700	620	517	391	65				
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					0.734	2.90	0.028	0.000	0.00	8,107	0.000	0.00	0.0E+00	0.98
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	0.99	0.92	0.77	0.59	0.30	0.00
Longitudinal					$K_{\theta L, coll}$	1.00	1.00	1.00	0.99	0.92	0.77	0.59	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					$(\vartheta_m - \vartheta_a)_{max}$		81		K					
Standard stagnation temperature (G = 1000 W/m²; ϑ_a = 30 °C)					ϑ_{stg}		210		°C					
Maximum operating temperature					$\vartheta_{max, op}$		210		°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)		23COL1701 23COL1702 23COL1702Q/1					Dated		31.08.2023 31.08.2023 02.11.2023					
Comments of testing laboratory					Ver. 6.2 (13.01.2022)									
This data sheet replaces the version from 31.08.2023 Documented performance parameters are taken from 23COL1702 (FK8257N 4M MP)					 Forschungs- und Testzentrum für Solaranlagen Institut für Thermodynamik und Wärmetechnik Universität Stuttgart Pfaffenwaldring 6, 70550 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														

