


Annex to Solar Keymark Certificate					Licence Number		011-7S2971 R									
					Date issued		2020-05-13									
					Issued by		DIN CERTCO									
Licence holder		Bio Energie op Maat BV			Country		Netherlands									
Brand (optional)		SolCol			Web		www.solcol.nl									
Street, Number		Julianaweg 4			E-mail		info@solcol.nl									
Postcode, City		6265 AJ Sint Geertruid			Tel		+31 46 711 12 13									
Collector Type					Evacuated tubular 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	104 K						
					m ²	mm	mm	mm	mm	mm	mm					
SolCol CPC 6XL					1.45	2 057	707	103	831	821	797	768	735	668		
Power output per m² gross area					573	566	550	530	507	461						
Performance parameters test method					Steady state - outdoor											
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					0.577	0.666	0.004	0.000	0.00	8 167	0.000	0.00	0.0	0.96		
Incidence angle modifier test method					Quasi dynamic - outdoor											
Incidence angle modifier					Angle	10°	20°	30°	40°	50°	60°	70°	80°	90°		
Transversal					$K_{\theta T, coll}$	1.01	1.01	1.02	1.02	0.98	1.05	1.14	0.57	0.00		
Longitudinal					$K_{\theta L, coll}$	1.00	1.00	0.99	0.98	0.95	0.89	0.76	0.38	0.00		
Heat transfer medium for testing					Water											
Flow rate for testing (per gross area, A_G)					dm/dt		0.172		kg/(sm ²)							
Maximum temperature difference during thermal performance test					$(\vartheta_m - \vartheta_a)_{max}$		74		K							
Standard stagnation temperature (G = 1000 W/m²; $\vartheta_a = 30 \text{ }^\circ\text{C}$)					ϑ_{stg}		301		°C							
Maximum operating temperature					$\vartheta_{max, op}$		160		°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)					14COL1031OEM09 14COL1032Q/2OEM09 06COL456/7						Dated		13.05.2020 13.05.2020 25.06.2015			
Comments of testing laboratory					Datashet version: 6.1, 2019-09-26											
Documented performance parameters are taken from test report 06COL456/7					 Forschungs- und Testzentrum für Solaranlagen Institut für Thermodynamik und Wärmetechnik Universität Stuttgart Pfaffenwaldring 8, 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																

