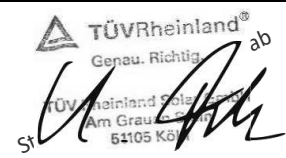


Annex to Solar Keymark Certificate					Licence Number		011-7S894 F							
					Date issued		2025-02-19							
					Issued by		DINCERTCO							
Licence holder		Cosmogas Srl			Country		Italy							
Brand (optional)		Cosmogas			Web		http://www.cosmogas.com							
Street, Number		Via L. da Vinci 16			E-mail		info@cosmogas.com							
Postcode, City		47014 Meloda (FC)			Tel		+39 543 498 383							
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	100 K				
					m ²	mm	mm	mm	mm	mm	mm			
SOLARPLUS O					2.25	2 100	1 070	105	1 485	1 416	1 258	1 076	868	509
SOLARPLUS V					2.25	1 070	2 100	105	1 485	1 416	1 258	1 076	868	509
Power output per m² gross area					660	629	559	478	386	226				
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		0.666	2.94	0.014	0.000	0.00	7 520	0.000	0.00	0.0E+00	0.94			
Incidence angle modifier test method		Quasi dynamic - outdoor												
Incidence angle modifier		Angle	10°	20°	30°	40°	50°	60°	70°	80°	90°			
Transversal		K _{θT, coll}	1.00	0.99	0.98	0.95	0.92	0.85	0.71	0.36	0.00			
Longitudinal		K _{θL, coll}	1.00	0.99	0.98	0.96	0.92	0.85	0.71	0.36	0.00			
Heat transfer medium for testing					Water									
Flow rate for testing (per gross area, A_G)					dm/dt	0.024	kg/(sm ²)							
Maximum temperature difference during thermal performance test					($\vartheta_m - \vartheta_a$) _{max}	70	K							
Standard stagnation temperature (G = 1000 W/m²; $\vartheta_a = 30$ °C)					ϑ_{stg}	200	°C							
Maximum operating temperature					$\vartheta_{max, op}$	200	°C							
Maximum operating pressure					p _{max, op}	1000	kPa							
Testing laboratory		TÜV Rheinland Solar GmbH					http://www.tuv.com/solar							
Test report(s)		DE23W490 001 DE23KOFY 001 DE258ZQT 001 (Doc-check)					Dated		22.08.2023 22.08.2023 19.02.2025					
Comments of testing laboratory					Ver. 6.2 (13.01.2022)									
														
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