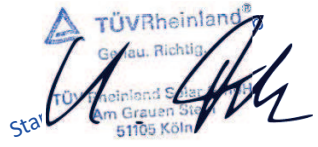




Annex to Solar Keymark Certificate

Licence Number					011-7S3287 F														
					Date issued					2025-03-27									
										Issued by					DINCERTCO				
Licence holder					ELCO GmbH										Country				
Brand (optional)										Web					www.elco.net				
Street, Number					Hohenzollernstr. 31					E-mail					info@de.elco.net				
Postcode, City					72379 Hechingen					Tel					+49 (0) 7471 / 187-0				
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 θ _m - θ _a										
									0 K W	10 K W	30 K W	50 K W	70 K W	100 K W					
SOLATRON M2.3 H					2.30	1 100	2 100	110	1 576	1 506	1 349	1 168	963	611					
Power output per m ² gross area								685	655	587	508	419	266						
Performance parameters test method					Steady state - outdoor														
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					0.693	2.90	0.013	0.000	0.00	6 512	0.000	0.00	0.0E+00	0.92					
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	1.00	0.99	0.98	0.96	0.93	0.87	0.68	0.00					
Longitudinal					K _{θL, coll}	1.00	1.00	0.99	0.98	0.96	0.93	0.87	0.68	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										(θ _m -θ _a) _{max}	70	K							
Standard stagnation temperature (G = 1000 W/m ² ; θ _a = 30 °C)										θ _{stg}	210	°C							
Maximum operating temperature										θ _{max, op}	210	°C							
Maximum operating pressure										p _{max, op}	1000	kPa							
Testing laboratory					TÜV Rheinland Solar GmbH					http://www.tuv.com/solar									
Test report(s)					DE24VL8D 001 DE25YV6Z 001					Dated 10.10.2024 27.03.2025									
Comments of testing laboratory										Ver. 6.2 (13.01.2022)									
																			
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