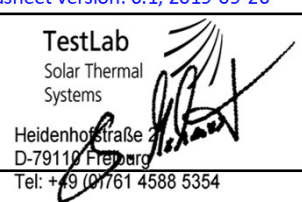


Annex to Solar Keymark Certificate					Licence Number		011-7S807 F				
					Date issued		2020-12-11				
					Issued by		DIN CERTCO				
Licence holder		ERASLANLAR INSAAT SAN. VE TIC			Country		TURKEY				
Brand (optional)					Web						
Street, Number		ORGANIZE SANAYI BOLGESI ASIKPASA CAD.			E-mail		musa.cimen@eraslan.com.tr				
Postcode, City		40100, KIRSEHIR			Tel		+903862721070				
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 W	10 K W	30 K W	50 K W	70 K W	104 K W
BLUESTAR XXL		2,69	2.115	1.215	70	1.930	1.840	1.633	1.389	1.109	556
BLUESTAR L		2,35	1.937	1.215	70	1.688	1.610	1.429	1.215	970	486
BLUESTAR XXM		2,19	1.805	1.215	70	1.573	1.500	1.331	1.132	904	453
BLUESTAR XM		1,99	1.641	1.215	70	1.430	1.364	1.210	1.030	822	412
BLUESTAR S		1,78	1.937	919	70	1.277	1.217	1.080	919	734	368
Power output per m ² gross area						717	684	607	516	412	207
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		0,725	3,17	0,017	0,000	0,00	8.362	0,000	0,00	0,0E+00	0,93
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	0,93	0,88	0,79	0,59	0,00	0,00
Longitudinal		$K_{\theta L, coll}$	1,00	0,99	0,97	0,93	0,88	0,79	0,59	0,00	0,00
Heat transfer medium for testing		Water									
Flow rate for testing (per gross area, A_G)		dm/dt	0,002		kg/(sm ²)						
Maximum temperature difference during thermal performance test		$(\vartheta_m - \vartheta_a)_{max}$	73,6		K						
Standard stagnation temperature (G = 1000 W/m ² ; $\vartheta_a = 30^\circ\text{C}$)		ϑ_{stg}	199,1		°C						
Maximum operating temperature		$\vartheta_{max, op}$	95		°C						
Maximum operating pressure		$p_{max, op}$	600		kPa						
Testing laboratory		TestLab Solar Thermal Systems, Fraunhofer ISE					http://www.collectortest.com				
Test report(s)		ktb-2020-12-k1					Dated		11.12.2020		
		ktb-2020-13-k1							11.12.2020		
Comments of testing laboratory		Datasheet version: 6.1, 2019-09-26									
							 TestLab Solar Thermal Systems Heidenhofstraße 2 D-79110 Freiburg Tel: +49 (0)761 4588 5354				
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