

	Licence Number			SKM 9965/6										
Annex to Solar Keymark Cer	Date issued			2022-0	8-30									
	Issued	bv		DQS Hellas										
Licence holder	Country BULGARIA													
Brand (optional)	AELIOS			NAL EAD		Web	http://nobel.bg							
Street, Number		OSHA BL	/			E-mail	info@nobel.bg							
Postcode, City								Tel +359 2 4210232						
Collector Type						Flat plat	e collecto	r						
						Powe	er outpu	t per coll	ector					
Collector name		A <sub>G</sub> )		Gross width	Gross height	Gb =	850 W/m			2 & u = 1.3	3 m/s			
		Gross area (A <sub>G</sub> )	Gross length					ປີ <sub>m</sub> - ປີ <sub>a</sub>						
			rg Ta	<u>s</u> is	Gr he	0 К	10 K	30 K	50 K	70 K	90 I			
		m²	mm	mm	mm	W	W	W	W	W	W			
AELIOS CuS 1500		1.58	1,530	1,030	80	1,041	986	864	723	565	389			
AELIOS CuS 2000		2.09	2,030	1,285	80	1,377	1,305	1,142	956	747	514			
AELIOS CuS 2600		2.60	2,030	1,285	80	1,714	1,623	1,421	1,190	929	640			
Power output per m <sup>2</sup> gross area						650	624	E 47	450	257	24			
		<b>.</b>				659	624	547	458	357	246			
Performance parameters test met			state - out					-						
Performance parameters (related	to A <sub>G</sub> )	η0, b	a1	a2	a3	a4	a5	a6	a7	a8	Kd			
Units		-		W/(m <sup>2</sup> K <sup>2</sup> )		-	J/(m²K)	s/m		W/(m <sup>2</sup> K <sup>4</sup> )	-			
Test results		0.669	3.33	0.014	0.000	0.00	7,710	0.000	0.00	0.0E+00	0.9			
Incidence angle modifier test met	hod		Steady s	tate - out	door									
Incidence angle modifier		Angle	10°	20°	30°	40°	50°	60°	70°	80°	90°			
Transversal		Κ <sub>θΤ,coll</sub>	1.00	0.99	0.96	0.92	0.85	0.74	0.59	0.35	0.0			
Longitudinal		K <sub>θL,coll</sub>	1.00	0.99	0.96	0.92	0.85	0.74	0.59	0.35	0.0			
Heat transfer medium for testing							Water							
Flow rate for testing (per gross are		dm/dt 0.017 kg/(sm				)								
Maximum temperature difference during thermal performance test							$(\vartheta_m - \vartheta_a)_n$	nax	60	К				
Standard stagnation temperature (G = 1000 W/m <sup>2</sup> ; $\vartheta_a$ = 30 °C)							ϑ <sub>stg</sub>		152	°C				
Maximum operating temperature							$\vartheta_{max\_op}$			°C				
Maximum operating pressure							p <sub>max,op</sub>	1000	kPa					
Festing laboratory	NCSR Demokritos						www.solar.demokritos.gr							
Fest report(s)	4077DE7						Dated 13/11/13							
,	4079D													
	4085D0	28												
Comments of testing laboratory								Ver.	6.2 (13.01	2022)				
							SOLAR Tel: +210 6	ENERGY L	K R I T O S ABORATOR (: +210 654459 Paraskevi, Greec	Ball	Jus:			
										.dqs.gr, e				

Annex to Solar Keymark Certific	ate					Licen	ce Nur	nber		SKM S	9965/0	age 2/: 5		
Supplementary Information					Issued						2022-08-30			
Gross Thermal Yield in kWh/collect Standard Locations				peratu				Stockholr	_					
Standard Locations Collector name	25°C	Athens 50°C	75°C	25°C	Davos 50°C	75°C	25°C	50°C	75°C	25°C	Vürzbu 50°C	75°C		
AELIOS CuS 1500	1,598		663	1,187	778	447	879	546	307	958	589	323		
AELIOS CuS 2000	· ·	1,443	877	1,571	_	591	1,163	722	405	1,268	779	427		
ELIOS CuS 2600				1,954		735	1,446	898	504	1,577	969	531		
									-		-			
Gross Thermal Yield per m <sup>2</sup> gross area	1,011	691	420	751	492	283	556	345	194	607	373	204		
Annual efficiency, $\eta_a$	57%	39%	420 24%	46%	492 30%	17%	48%	345	194	49%	373	16%		
Fixed or tracking collector	5170	3370						nded to r			30%	10%		
Annual irradiation on collector plane	176	55 kWh						L66 kWh/		-	14 kWh	/m²		
Mean annual ambient air temperature	1765 KWII/III- 18.5°C			1630 kWh/m² 3.2°C				7.5°C			9.0°C			
Collector orientation or tracking mode	South, 25°		S	outh, 30	)°	9	South, 45	0	S	outh, 3	5°			
The collector is operated at constant ter		,			,			,				-		
collector performance is performed with												iled		
description of the calculations is availab										,				
•		h۵	dition	al Info	rmatio	n								
Collector heat transfer medium		Au	union		matic	//i				Water-	Glycolo			
The collector is deemed to be suitable for	or roof i	ntegrat	ion								lo			
The collector was tested successfully un	der the	followi	ng cond	litions:										
-	der the	followi	ng cond	litions:						A	-	-		
-		followii (°C) >	ng cond	litions:	20			H <sub>x</sub> (MJ,		A		 00		
The collector was tested successfully un Climate class (A+, A, B or C) G (W/m <sup>2</sup> ) > 1000 Maximum tested positive load			ng cond	litions:	20			H <sub>X</sub> (MJ)	/m²) >	A 000	6			
Climate class (A+, A, B or C) G (W/m <sup>2</sup> ) > 1000			ng cond	litions:	20			H <sub>x</sub> (MJ	′m²) > 1(		61 F	00		
Climate class (A+, A, B or C)G (W/m²) >1000Maximum tested positive load	မ <sub>ီ</sub> m drop l	(°C) >						H <sub>x</sub> (MJ)	′m²) > 1(	000	6 F F	00 Ya		
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Elimate class (A+, A, B or C)     G (W/m²) >     Maximum tested positive load     Maximum tested negative load     Iail resistance using steel ball (maximur     Using external power source(s) for norm     Co-generating thermal and electrical po     Energy Labelling Infor     AELIOS CuS 1500     AELIOS CuS 2000     VELIOS CuS 2600     Data required for CDR (EU) No 811/201     Collector efficiency (η <sub>col</sub> )     emark: Collector efficiency (ηcol) is defined     11/2013 as collector efficiency of the solar c     ifference between the solar collector and th	9a m drop I Anal oper wer matio Referen 	(°C) > height) dditio ation n ce Area, 1.58 2.09 2.60 2.60 erence A 50% EU) No at a temp nding air	Area Perature of 40 K	Active Façade B-V-12 8-V-12 11-V-1 Data re Zero-lo First-on Second Inciden Remark	attrik or passic collecto Ado ydraulic 34S-A:7 34S-A:7 234S-A:7 234S-A: 234S-A	for CDI ency (n fficient coefficie modificiagiven i	sure(s) f al Info nation C 2-C:20.6 2-C:20.6 2-C:20.6 2-C:20.6 (a_1) ent (a_2) fier IAM in this sec	for self-pr rmative ode 5,1060-D 6,1320-D 6,1320-D 0 812/20 (50°) ction are re	(m <sup>2</sup> ) > 10 10 10 10 10 10 10 10 10 10	000 000 n erture A 1.4 2.3 ference 66 33 014 85 collector	60 F F r r ata rea, A <sub>a</sub> 40 88 37 Area A 	00 'a n No No (m <sup>2</sup> ) (m <sup>2</sup> ) 		
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Climate class (A+, A, B or C)     G (W/m <sup>2</sup> ) >     Maximum tested positive load     Maximum tested negative load     Hail resistance using steel ball (maximur     Using external power source(s) for norm     Co-generating thermal and electrical po     Energy Labelling Infor     AELIOS CuS 1500     AELIOS CuS 2000     AELIOS CuS 2600     Data required for CDR (EU) No 811/201     Collector efficiency (ncol)     Remark: Collector efficiency (ncol) is defined     Cult/2013 as collector efficiency of the solar clifference between the solar collector and th     nd a global solar irradiance of 1000 W/m <sup>2</sup> , e     ounded to the nearest integer. Deviating fro     maxed on reference area (Asol) which is apert	9a m drop I Anal oper wer matio Referen Referen in CDR (Folloctor a e surrour xpressed m the reg ure area 9806:20	(°C) > height) additio ation n ce Area, 1.58 2.09 2.60 2.60 2.60 2.60 50% EU) No at a temp nding air in % and gulation for value 17.	Area Perature of 40 K d ncol is 25	Active of Façade Htt 8-V-12 8-V-12 11-V-1 11-V-1 Data re Zero-lo First-on Second Incider Remark. (A sol) wa area for be used program	attrik or passic collecto Ado ydraulic 34S-A:7 34S-A:7 234S-A: 2355-234S-A: 2355-235-235-235-235-235-235-235-235-235	for CDI ency (n) fficient coef	sure(s) f al Info ation C 2-C:20.6 2-C:20.6 2-C:20.6 2-C:20.6 2-C:20.6 (2-C:20.6)	for self-pr rmative ode 5,1060-D 5,1060-D 6,1320-D 6,1320-D 10 812/20 (50°) (50°) (50°) (50°) (50°) (50°) (50°)	(m <sup>2</sup> ) > 10 10 10 10 10 10 10 10 10 10	000 000 n nical D erture A 1.4 2.3 2.3 ference 66 33 014 85 collector EN 12975 erture or g 812 and	Area A W/( W/( i -2 or gr gross are simulation	00 l'a l'a m No No (m <sup>2</sup> ) (m <sup>2</sup> ) 		