



						Licenc	e Numb	er	SKM 9		rage 1/2			
	Keymark Certifica	Date is		in Politice	2018-08-05									
9806:2013 Test	Issued			DQS Hellas										
Licence holder	HELIOAKMI S.A.		Greece		DQ3 Helias									
Brand (optional)	HELIOAKMI, MEGASI VORMANN, SOLARTO	Web	191	www.helioakmi.com										
Street, Number		E-mail	megasur	n@helioa	kmi com									
Postcode, City								megasun@helioakmi.com +030 210 5595625						
20 2	100 00 1 mF 11 0 1					Tel								
Collector Type						Flat plat	te collecto	or, glazed	•					
							Powe	er outpu	t per colle	ector				
		Gross area (A <sub>G</sub> )	_	2000					; Gd = 150					
			Gross length	Gross	Gross height	მm - მa								
			e g	צַֿ פֿ	g. he	0 K	10 K	30 K	50 K	70 K	50 K			
Collector name		m²	mm	mm	mm	W	W	W	W	W	W			
ST-2000-AL-SEL		2.07	2,050	1,010	90	1,242	1,173	1,006	801	558	801			
ST-2500-AL-SEL	ar.	2.62	2,050	1,280	90	1,572	1,485	1,273	1,014	707	1,014			
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		<u> </u>	<del>                                     </del>			†								
							f							
Power output per	m² gross area					600	567	486	387	270	387			
Performance parar	meters test method		Steady s	state - out	tdoor									
	meters (related to AG)	)	η0,hem		a2		1		1					
Units			<u> </u>	$W/(m^2K)$	W/(m²K²)		f				<u> </u>			
Test results			0.600	3.109	0.023									
Incidence angle mo	odifier test method		T											
	dence angle modifiers	No	<del>                                     </del>											
Incidence angle mo		Angle	10°	20°	30°	40°	50°	60°	70°	80°	90°			
Transversal		$K_{\theta T, coll}$	<u> </u>			<u> </u>	0.86				0.00			
Longitudinal		$K_{\theta L,coll}$					0.86				0.00			
Heat transfer medi	ium for testing						Water							
	ng (per gross area, A <sub>G</sub> )	<u> </u>					dm/dt		0.020	kg/(sm²	·)			
	ature difference for th				ations		$(\vartheta_{m}-\vartheta_{a})_{r}$	nax	50	К				
	on temperature (G = 1	1000 and 100		o °C)			$\vartheta_{stg}$		136.5	°C				
	capacity, incl. fluid (pe	r gross a	rea, A <sub>G</sub> )				C/m <sup>2</sup> 10.61 kJ/(K			kJ/(Km <sup>2</sup> )				
Maximum operatir	= 0 · · · · · · · · · · · · · · · · · ·						ϑ <sub>max op</sub> 100 °C			1000				
Maximum operatir		p <sub>max,op</sub>		1000	kPa									
Testing laboratory	Demokritos						www.so	lar.demo	kritos.gr					
Test report(s)	41		Dated 12-11-2018, 30-07-20 12-11-2018											
Comments of testi	ing laboratory						Data	sheet ve	rsion: 5.0	1. 2016-0	13-01			
	DE3, 4140DE3, 4223DC	ૂ2 were i	ssued for	the trans	ition fron	n EN	N.C.S.R SOLAR E	"DEMO	KRITOS" ABORATORY Belessiets +210 5544504	1.00001				
Control Offices V	alavriton 4, 145 64 kifi	isia Atho	one Tol.	301 6235	₹493-4 F	av: +301 (	<u> </u> 6233495	httn://w	nunu dasi	nellas or	e-mail			



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	ertifica	ate					Licenc	e Nun	nber		SKM 9	926/3	3
Supplementary Informatio	Issued				2018-08-05								
Annual collector output in kV		lloctor	at maa	n fluid	tomno	raturo	og ha	sod or	ISO 09	206.30	12 tost	roculto	,
Standard Loc			Athens		tempe		U <sub>m</sub> , Do	_	tockhol		_		
Collector name	∂ <sub>m</sub>				25°C	Davos	7500	25°C				/ürzbur	_
ST-2000-AL-SEL	υ <sub>m</sub>	25°C 1,837	<b>50°C</b> 1,192	<b>75°C</b>	1,348	50°C 821	75°C 393	997	<b>50°C</b> 581	<b>75°C</b> 279	25°C 1,084	50°C 621	<b>75°C</b>
ST-2500-AL-SEL			1,192	809	1,706		497	1,262	736	353	1,084	786	372
31-2300-AL-3LL		2,320	1,308	803	1,700	1,039	437	1,202	730	333	1,372	780	3/2
Annual output per m² gross area		888	576	309	651	397	190	482	281	135	524	300	142
Fixed or tracking collector		000	370				190 tude - 1					300	142
Annual irradiation on collector pl	lane	176	55 kW/h			L4 kWh			56 kWh			14 k\\/h	/m²
Mean annual ambient air temper		1765 kWh/m² e 18.5°C				3.2°C	/ 1111	111	7.5°C	111	1244 kWh/m² 9.0°C		
									outh, 45	5°	S	outh, 35	5°
The collector is operated at cons													
collector performance is perform													halict
description of the calculations is								Cerioca	ic vei.	J.O1 (1VI	arcii 201	. oj. A uč	caneu
description of the calculations is	availab	ic at wv											
			Δda	dition	al Imfai								
			Aut	ultione	11 111101	matio	n						
Collector heat transfer medium			Aut	ultion	11 111101	matio	n				Water-	Glycole	
Hybrid Thermal and Photo Voltai					11 111101	matio	n				N	0	
Hybrid Thermal and Photo Voltai The collector is deemed to be sui	itable f	or roof i	ntegrat	ion								0	
Hybrid Thermal and Photo Voltai The collector is deemed to be sui The collector was tested successi	itable f	or roof i	ntegrat	ion				ing con	ditions:		N N	0	
Hybrid Thermal and Photo Voltai The collector is deemed to be sui The collector was tested successi Climate class (A, B or C)	itable f	or roof i	ntegrat	ion				ing con	ditions:		N N	0	-
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