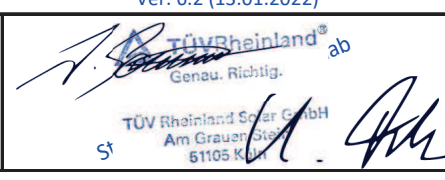


Annex to Solar Keymark Certificate					Licence Number		011-7S242 F							
					Date issued		2023-10-30							
					Issued by		DINCERTCO							
Licence holder		A.O. Smith Water Products Company			Country		Netherlands							
Brand (optional)		-			Web		www.aosmithinternational.com							
Street, Number		De Run 5305			E-mail		tsg@aosmith.nl							
Postcode, City		5503 LW Veldhoven			Tel		+39 (0)773 844 051							
Collector Type					Flat plate collector									
Collector name					Power output per collector									
					Gb = 850 W/m <sup>2</sup> , Gd = 150 W/m <sup>2</sup> & u = 1.3 m/s $\vartheta_m - \vartheta_a$									
					0 K	10 K	30 K	50 K	70 K	100 K				
					m <sup>2</sup>	mm	mm	mm	mm	mm				
AOSP 240 V					2.52	2 095	1 200	110	1 703	1 622	1 444	1 244	1 021	646
AOSP 240 H					2.52	1 200	2 095	110	1 703	1 622	1 444	1 244	1 021	646
AOSP 240 V al-cu					2.52	2 095	1 200	110	1 703	1 622	1 444	1 244	1 021	646
AOSP 240 H al-cu					2.52	1 200	2 095	110	1 703	1 622	1 444	1 244	1 021	646
Power output per m <sup>2</sup> gross area					676	644	573	494	405	256				
Performance parameters test method		Quasi dynamic												
Performance parameters (related to A <sub>G</sub> )		$\eta_{0, b}$	a1	a2	a3	a4	a5	a6	a7	a8	Kd			
Units		-	W/(m <sup>2</sup> K)	W/(m <sup>2</sup> K <sup>2</sup> )	J/(m <sup>3</sup> K)	-	J/(m <sup>2</sup> K)	s/m	W/(m <sup>2</sup> K <sup>4</sup> )	W/(m <sup>2</sup> K <sup>4</sup> )	-			
Test results		0.681	3.10	0.011	0.000	0.00	5 282	0.000	0.00	0.0E+00	0.95			
Incidence angle modifier test method		Quasi dynamic - outdoor												
Incidence angle modifier		Angle	10°	20°	30°	40°	50°	60°	70°	80°	90°			
Transversal		K <sub>GT, coll</sub>	1.00	0.99	0.97	0.94	0.90	0.81	0.64	0.32	0.00			
Longitudinal		K <sub>GL, coll</sub>	1.00	0.99	0.97	0.94	0.90	0.81	0.64	0.32	0.00			
Heat transfer medium for testing					Water									
Flow rate for testing (per gross area, A <sub>G</sub> )					dm/dt	0.020	kg/(sm <sup>2</sup> )							
Maximum temperature difference during thermal performance test					( $\vartheta_m - \vartheta_a$ ) <sub>max</sub>	70	K							
Standard stagnation temperature (G = 1000 W/m <sup>2</sup> ; $\vartheta_a = 30$ °C)					$\vartheta_{stg}$	220	°C							
Maximum operating temperature					$\vartheta_{max, op}$	-	°C							
Maximum operating pressure					p <sub>max, op</sub>	600	kPa							
Testing laboratory		TÜV Rheinland Solar GmbH					http://www.tuv.com/solar							
Test report(s)		300100521.001/ 300100521.002 300100521.004/ 300100521.005 DE23CW9I.001					Dated		30.09.2022/ 30.09.2022 30.09.2022/ 30.09.2023 30.10.2023					
Comments of testing laboratory					Ver. 6.2 (13.01.2022)									
none														
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