



Issued by	DQS Hellas
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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	10 K	30 K	50 K	70 K	100 K
					W	W	W	W	W	W
H81 15 Open Loop	1.41	1,455	960	80	897	836	704	559	400	138
H81 20 Open Loop	1.88	1,960	960	80	1,196	1,115	939	745	534	184
H81 25 Open Loop	2.37	1,960	1,210	80	1,508	1,405	1,183	939	673	231
Power output per m ² gross area					636	593	499	396	284	98

Performance parameters test method	Quasi dynamic
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Performance parameters (related to A_6)	n0, b	a1	a2	a3	a4	a5	a6	a7	a8	Kd
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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)	-
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Test results	0.638	4.22	0.012	0.000	0.00	8,437	0.000	0.00	0.0E+00	0.98
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Incidence angle modifier test method	Quasi dynamic - outdoor
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Incidence angle modifier	Angle	10°	20°	30°	40°	50°	60°	70°	80°	90°
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Transversal	$K_{AT, coll}$	1.00	1.00	0.99	0.98	0.96	0.92	0.72	0.31	0.00
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Longitudinal	$K_{Al, coll}$	1.00	1.00	0.99	0.98	0.96	0.92	0.72	0.31	0.00
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Heat transfer medium for testing

Water

Flow rate for testing (per gross area, A_G)

dm/dt	0.036	kg/(sm ²)
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Maximum temperature difference during thermal performance test

$(\vartheta_m - \vartheta_a)_{\max}$	70	K
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Standard stagnation temperature ($G = 1000 \text{ W/m}^2$; $\vartheta_a = 30^\circ \text{C}$)

ϑ_{stg}	180	°C
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Maximum operating temperature	100 °C
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$\vartheta_{\text{max on}}$	-	°C
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Maximum operating pressure	100 bar
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$p_{\text{max on}}$	1000	kPa
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Testing laboratory	TÜV Rheinland Solar GmbH
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<http://www.tuv.com/solar>

Test report(s)	DE24D6GQ 001rev001
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Dated	14.10.2025
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DE245UB5 001rev001

14.10.2025

Comments of testing laboratory

Ver. 6.2 (13.01.2022)





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