



Annual collector output based on EN 12975 Test Results, annex to Solar KEYMARK Certificate	Licence Number	011-7S2265 R
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Annual collector output kWh/module															
Collector name	Location and collector temperature (T _m)														
	Athens			Davos			Stockholm			Würzburg					
	25°C	50°C	75°C	25°C	50°C	75°C	25°C	50°C	75°C	25°C	50°C	75°C			
SZ58/1800-10HA	1 230	999	803	1 015	823	663	707	544	418	780	603	461			
SZ58/1800-15HA	1 845	1 498	1 205	1 522	1 234	995	1 060	817	627	1 170	904	692			
SZ58/1800-20HA	2 459	1 998	1 606	2 030	1 646	1 327	1 414	1 089	836	1 560	1 205	923			
SZ58/1800-25HA	3 074	2 497	2 008	2 537	2 057	1 658	1 767	1 361	1 045	1 949	1 507	1 153			
SZ58/1800-30HA	3 689	2 997	2 409	3 045	2 468	1 990	2 121	1 633	1 253	2 339	1 808	1 384			

Collector mounting: Fixed or tracking	Fixed; slope = latitude - 15° (rounded to nearest 5°)
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Overview of locations				
Location	Latitude °	G _{tot} kWh/m ²	T _a °C	Collector orientation or tracking mode
Athens	38	1 765	18.5	South, 25°
Davos	47	1 714	3.2	South, 30°
Stockholm	59	1 166	7.5	South, 45°
Würzburg	50	1 244	9.0	South, 35°

G _{tot}	Annual total irradiation on collector plane	kWh/m ²
T _a	Mean annual ambient air temperature	°C
T _m	Constant collector operating temperature (mean of in- and outlet temperatures)	°C

The calculation of the annual collector performance is performed with the official Solar Keymark spreadsheet tool ScenoCalc. The collector output is calculated hour by hour according to the efficiency parameters from the Keymark test using constant collector operating temperature (T_m). A detailed description of the calculations is available at <http://www.sp.se/en/index/services/solar/ScenoCalc/Sidor/default.aspx>.

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	ScenoCalc version:
	Ver. 4.04 (Jun, 2013)