

PHOTON International

Test de la performance des panneaux sur une année. Tous les panneaux sont connectés au même système et on le même ensoleillement, les valeurs de production sont vérifiées après un an.

Test 2007 :



A significant deviation: PHOTON's recent module tests measured 10 modules. The module with the highest yield (Photowatt) and the module with the weakest yield (Sharp) are separated by almost exactly 100 kWh per kW.

Results of module tests after one year*							
Module type	Pnom (W)	PSTC (W)	Yield (kWh)	Normed yield (kWh/kW)	Average of normed yield (kWh/kW)	Performance ratio (%)	Average of PR (%)
Photowatt – PW1650	175	172.64	177.45	1,027.89	1,017.71	92.26	91.34
	175	170.32	167.79	985.14		88.42	
	175	171.43	178.30	1,040.10		93.35	
Solarworld – SW 210 poly	210	213.21	214.28	1,005.02	1,010.31	90.21	90.68
	210	212.37	217.43	1,023.82		91.89	
	210	212.2	212.64	1,002.08		89.94	
Shell – SQ 150-C	150	153.2	160.12	1,045.18	998.87	93.81	89.65
	150	156.5	150.67	962.74		86.41	
	150	155.8	154.04	988.68		88.74	
BP 7185 S	185	186.1	181.91	977.73	978.62	87.76	87.84
	185	185.1	181.24	979.32		87.90	
	185	187.6	183.60	978.81		87.85	
Solar-Fabrik SF 145A	145	145.80	135.76	931.16	953.20	83.58	85.55
	145	145.46	141.86	975.24		87.53	
Isofoton – I-110/24	110	102.498	96.90	945.38	950.47	84.85	85.31
	110	100.317	97.54	972.29		87.27	
	110	100.464	93.81	933.75		83.81	
Kyocera – KC170GT-2	170	178.4	169.96	952.69	947.65	85.51	85.06
	170	176.8	165.69	937.18		84.12	
	170	177.2	168.89	953.08		85.54	
Sunways / MHH plus 190	190	199.5	187.05	937.82	946.40	84.17	84.94
	190	199.6	190.64	954.98		85.71	
Sanyo – HIP-J548E2	180	–	166.24	923.57	926.84	82.90	83.19
	180	–	159.89	888.29		79.73	
	180	–	174.36	968.66		86.94	
Sharp NT-R5E3E	175	187.9	169.94	904.54	917.48	81.19	82.35
	175	188.0	173.21	921.39		82.70	
	175	187.9	174.12	926.53		83.16	

* Aug. 2006 to July 2007; Irradiation at module level: 1,114 kWh/m²

SYSOLEO

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Test 2008 :

- o Highlights**
- Over the last three years, PHOTON Lab has monitored the yields of 16 different module types for a period of at least one year
 - The top three results were achieved by modules from SolarWorld, Photowatt and First Solar
 - The module from Sharp performed worst
 - The tested modules rank differently when observed on a monthly basis, with First Solar showing the highest yield from April to July

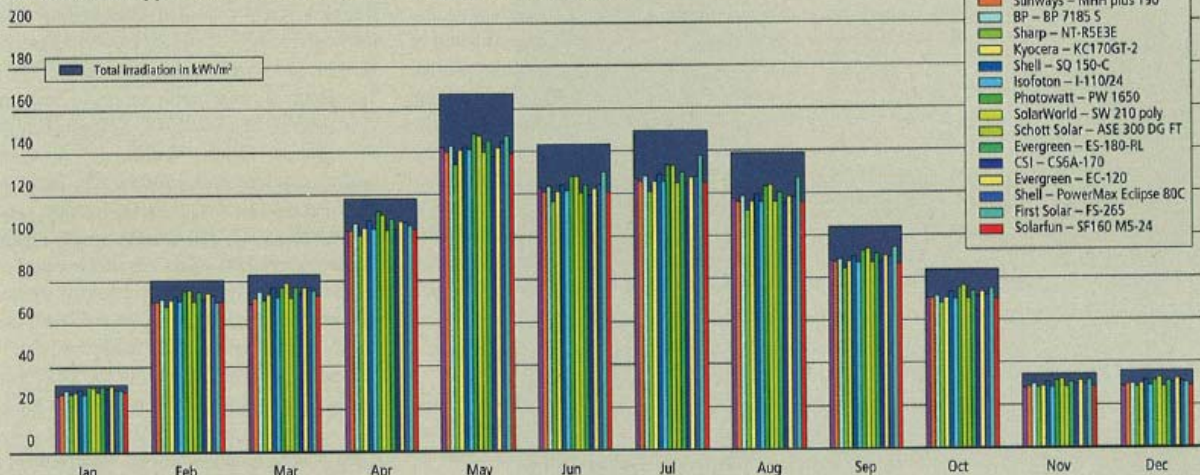
PHOTON Lab's module tests 2008

Standardized annual yield in kWh/kW



PHOTON Lab's module test 2008

Standardized monthly yield in kWh/kW and monthly irradiation totals (module level) in kWh/m²



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