



PHOTON's "Performance Ratio" - Test results of yield measurements 2012

Ranking Placement	Manufacturer	Nationality	Models	Production dates	Installed in	Yield/modules surface kWh/m ²	Yield in Pstc kWh/kW	Performance Ratio	From the first
1°	Sunpower	USA	SPR-327NE-WHT-D	n.s.	01/2012	228,7	1.144,1	95,2%	-
2°	Sunpower	USA	SPR-320NE-WHT-D	n.s.	01/2012	227,6	1.140,1	94,9%	0,35%
3°	Sunpower	USA	SPR-245NE-WHT-D	n.s.	01/2012	225,3	1.139,4	94,8%	0,42%
4°	Serphim Solar	China	SPR-220-6PB	n.s.	10/2011	156,1	1.125,5	93,9%	1,63%
5°	Yingli	China	YL240P-29b	n.s.	01/2012	169,2	1.118,7	93,1%	2,22%
6°	ET Solar	China	ET-P660240	n.s.	07/2011	161,6	1.115,3	92,8%	2,51%
7°	Sunerg Solar	Italy	XP 60/156-230	2010	02/2011	154,6	1.115,0	92,8%	2,55%
8°	Siliken	Spain	SLK60P6L 230Wp	n.s.	2009	158,0	1.114,2	92,7%	2,61%
9°	Jinko Solar	China	JKM190M-72	2010	07/2011	166,1	1.112,2	92,5%	2,79%
10°	Huanghe Photovoltaic	China	HH230(30)P	n.s.	01/2012	157,1	1.112,1	92,5%	2,80%
.....20°	Solarworld	Germany	Plus SW 225 mono	2009	03/2010	153,8	1.100,4	91,6%	3,82%
.... 50°	Mprime Solar	Portugal	M 235P	n.s.	01/2012	162,6	1.087,4	90,5%	4,95%
.... 70°	Sun Earth	China	TDB 125X125-72-P 180W ²	until 2010	02/2011	151,6	1.083,0	90,1%	5,34%
.....100°	Top Solar	China	TSM72-125M-190W	n.s.	07/2011	155,6	1.071,6	89,2%	6,33%
.....151°	Sharp	Japan	NT-R5E3E ²	2003	2005	137,2	949,2	79,0%	17,04%

Source photon.info/laboratry - Sunerg Solar placed at 7° rank (5° as manufacturer company) compared with 151 worldwide manufacturers. The complete Test results is available on the Photon Magazine.



www.sunergsolar.com

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