

PHOTON LAB'S OUTDOOR MODULE TESTS: RESULTS FOR OCTOBER 2011

Manufacturer	Model	Cell type	Origin	STC power in W	Yield in kWh/kW		Deviation from test winner (%)	Installed in
					October	January - October		
REC	REC230AE* ¹	Multi	Sweden	228.6	89.5	1,062.6	0.0	2010
NexPower	NT-125AX* ¹	µc-Si / a-Si	Taiwan	125.4	83.5	1,061.8	0.1	2010
Siliken	SLK60P6L 230Wp	Multi	Spain	229.7	87.9	1,053.5	0.9	2009
CH Solar	CH Solar 180 mono* ¹	Mono	China	184.4	88.2	1,043.7	1.8	2010
CSG PV Tech	CSG180S1-35/36* ³	Mono	China	184.1	88.1	1,042.2	1.9	2010
CNPV Solar	CNPV-185M	Mono	China	193.8	87.6	1,040.8	2.0	2010
Win Win Precision	Winaico WSP-235P6	Multi	Taiwan	240.1	87.7	1,039.3	2.2	2010
SolarWorld	Sunmodule Plus SW 225 mono	Mono	USA	233.4	87.2	1,037.3	2.4	2010
CSG PV Tech	CSG230M2-30* ⁴	Multi	China	228.3	87.1	1,033.1	2.8	2010
Bisol	BMU-215-2/221	Multi	Slovenia	229.1	86.2	1,032.2	2.9	2010
Upsolar	UP-M180M	Mono	China	181.5	87.4	1,031.3	2.9	2010
Trina Solar	TSM-180DC01	Mono	China	176.2	86.3	1,027.9	3.3	2009
Conergy	Conergy PowerPlus 220P	Multi	Germany	224.2	86.7	1,027.0	3.4	2010
Trina Solar	TSM-225PC05	Multi	China	233.0	86.0	1,026.8	3.4	2010
PV Power Technologies	PVQ3 220	Multi	India	223.6	83.5	1,026.5	3.4	2009
Aleo Solar	aleo S_18 225	Multi	Germany, Spain	230.5	86.7	1,026.0	3.4	2010
Kioto Photovoltaics	KPV 210 PE* ¹	Multi	Austria	206.6	86.1	1,025.5	3.5	2009
S-Energy	SM-220PA8	Multi	South Korea	224.4	82.9	1,023.8	3.7	2009
Solarfun (now Hanwha SolarOne)	SF160-24-1M175 (scac)	Mono	China	183.0	85.5	1,022.8	3.7	2010
Sunpeak-Vertrieb	ALP235W* ¹	Mono	India	233.0	85.9	1,021.7	3.8	2010
Win Win Precision	Winaico WSP-230P6	Multi	Taiwan	234.4	83.9	1,021.4	3.9	2009
Mage Solar	Mage Powertec Plus 225/6PJ	Multi	China	232.0	85.7	1,019.6	4.0	2009
Sonalis* ²	SL-180CE-36M	Mono	China	185.1	86.7	1,015.9	4.4	2010
Frankfurt Solar	FS215W-POLY	Multi	China	221.3	82.7	1,014.8	4.5	2009
Perfectenergy	PEM-180/185-72M-SCC	Mono	China	191.3	85.4	1,009.0	5.0	2010
Emmvee Photovoltaics	ES-230P60* ⁶	Multi	India	234.0	84.9	1,008.5	5.1	2010
Shell Solar (now SolarWorld)	Shell SQ 150-C* ¹	Mono	Portugal	155.8	85.0	1,008.3	5.1	2006
Sunrise Solartech	SRM 180D72-GE	Mono	China	181.5	82.2	1,005.9	5.3	2009
First Solar	FS-265	CdTe	USA	65.4	82.6	1,004.8	5.4	2007
SolarWorld	Sunmodule Plus SW 210 poly* ⁵	Multi	Germany	212.2	85.4	1,000.0	5.9	2006
Sovello	Pure Power SV-X-200 (LV)	Ribbon	Germany	205.0	83.7	998.5	6.0	2011
Shell Solar (now SolarWorld)	Shell PowerMax Eclipse 80-C* ¹	CIS	USA	90.8	82.6	998.1	6.1	2007
Evergreen	EC-120* ¹	Ribbon	USA	121.0	84.0	996.8	6.2	2006
Photowatt	PW 1650-175W	Multi	France	171.4	82.6	994.1	6.4	2006
Solar-Fabrik	SF 130/4-130* ¹	Mono	Germany	130.7	83.1	973.3	8.4	2010
Canadian Solar	CS6A-170P	Multi	China	174.4	80.6	970.1	8.7	2007
Isofoton	I-110/24* ¹	Mono	Spain	102.5	81.0	964.6	9.2	2006
Solarfun (now Hanwha SolarOne)	SF160 M5-24 (175 W)* ¹	Mono	China	174.6	80.3	961.4	9.5	2007
Kyocera	KC170GT-2* ¹	Multi	Japan	178.4	80.5	957.0	9.9	2006
Isofoton	IS-170/24* ¹	Mono	Spain	172.8	78.4	956.5	10.0	2009
Schott Solar	ASE-300-DG-FT (300 W)* ¹	Ribbon	USA	308.1	79.1	942.0	11.3	2007
Solar-Fabrik	SF 145A* ¹	Ribbon	Germany	145.8	78.2	941.1	11.4	2005
Sunways	MHH plus 190 (190 Wp)* ¹	Multi	Germany	199.5	78.4	939.2	11.6	2005
Evergreen	ES-180-RL* ¹	Ribbon	Germany	185.4	77.5	936.8	11.8	2007
BP Solar	BP 7185 S* ¹	Mono	Spain, India	185.1	75.9	929.4	12.5	2005
Sharp	NT-R5E3E* ¹	Mono	Japan	187.9	77.0	915.7	13.8	2005