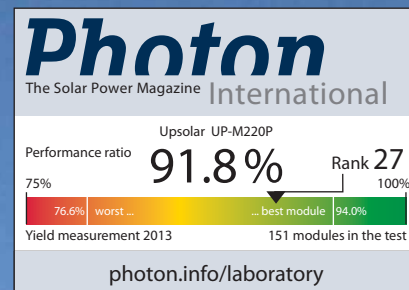


Showing UP the competition: Upsolar's Photon Yield Test Results

Photon Laboratory is a trusted resource for the testing of solar PV modules under real-world conditions. At its German headquarters, the organization has installed crystalline silicon and thin film modules from more than 100 global manufacturers to compare production levels in identical conditions.

Photon publishes its results on a monthly basis to report each module's yield (electricity production, measured in kWh) and — more importantly — its performance ratio (actual production versus nameplate production claim, measured as a percentage). Additionally, the organization ranks the best-performing manufacturers on an annual basis.

Upsolar's UP-M220P continues to shine as one of Photon's top performing modules. This year, we're pleased to announce that the UP-M220P has achieved 91.8% efficiency – up from 91.5% in 2012. Moreover, it has the distinction of being one of the earliest installed modules in Photon's testing laboratory that maintains top-level performance, demonstrating its year-over-year durability. Below is a snapshot of how our modules stack up against the competition.



Manufacturer	Model	Cell Type	Origin	Installed in	STC power (W)	2013 Rank	Performance Ratio (%) 2013
Upsolar	UP-M220P	multi	CN	2/2011	219.2	27	91.8
Aleo Solar	Aleo S_18 225	multi	DE, ES	4/2010	230.5	38	91.3
Canadian Solar	CS6A-170P	multi	CN	2007	174.4	143	83.3
CNPV Solar Power	CNPV-220P	multi	CN	7/2011	224.2	26	91.8
Kyocera	KC170GT-2	multi	JP	2006	178.4	146	82.8
Kyocera	KD210GH-2PU	multi	EU	2/2011	212.1	124	88.2
REC	Premium 210	multi	SE	2/2011	212.2	18	92.1
REC	REC230AE	multi	SE	2/2012	228.6	31	91.6
REC	REC230PE	multi	SG	2/2011	237.6	53	90.8
Renesola	JC245M-24/Bb	multi	---	10/2012	228.6	30	91.7
Solarworld	Sunmodule Plus SW 210 poly	multi	DE	2006	212.2	133	86.8
Solarworld	Sunmodule Plus SW 225 poly	multi	DE	2/2011	228.6	75	90.3
Solarworld	Sunmodule Plus SW 245 poly	multi	DE	1/2012	245.3	80	90.2
Suntech Power	STP190-18/Ub	multi	CN	2/2011	182.9	140	85.3
Suntech Power	STP205-18/Ud	multi	CN	2/2011	213.8	115	89.1
Trina Solar Energy	TSM-225PC05	multi	CN	2/2010	233.0	91	89.9
Trina Solar Energy	TSM-250PC05	multi	---	6/2012	249.3	---	---
Yingli Green Energy Holding	YL210P-29b	multi	CN	2/2011	214.3	106	89.5

Only a selection of the companies and corresponding performance data have been included in this comparison.