



Photon Test Result of GoodWe Solar Inverter

Photon
The Photon test result **International**

GW4000-SS
A

96.9% at medium irradiation 09/2012

www.photon-international.com

Photon
The Photon test result **International**

GW4000-SS
A

97.1% at high irradiation 09/2012

www.photon-international.com

- European weighted average overall efficiency: value: 96,9%; grade A.
Temperature dependent reduction of the conversion efficiency by minus 0,3% - the grade persists in A.
- California weighted average overall efficiency: value 97,1%; grade A.
Temperature dependent reduction of the conversion efficiency by minus 0,3% - the grade persists in A.

1~5kW Inverter test results

Inverter	Observed voltage range*1	eta _{Pmed}	Medium irradiation			High irradiation			PI issue	
			Grade as of 2011	Grade before 2011	Position	eta _{Phigh}	Grade as of 2011	Grade before 2011		Position
Steca's StecaGrid 3600	350 - 600 V	97.7%	A	-	3	97.8%	A	-	3	12/2011
Steca's Stecagrid 3000	350 - 700 V	97.5%	A	-	4	97.8%	A	-	3	9/2012
GoodWe GW4000-SS	280 - 500V	96.9%	A	-	-	97.1%	A	-	-	To be issued
Zeversolar New Energy's Eversol-TL 4600	290 - 500 V	96.7%	A	-	23	97.0%	A	-	21	9/2011
Sunways' NT 4200	340 - 750 V	96.7%	A	A+	23	96.8%	A	A+	32	3/2010
Kinglong's KLNE Sunteams 5000	280 - 440 V	96.6%	A	-	29	97.0%	A	-	21	5/2012
SMA's SMC 700TL	333 - 500 V	96.6%	A	A+	29	96.8%	A	A+	32	5/2010
Samil Power's Solarriver SR4K4TLA1	200 - 500 V	96.5%	A	-	33	96.8%	A	-	32	8/2011
Eltel Valere's Theia 4.4HE-t ^{MS}	230 - 480 V	96.5%	A	-	33	96.7%	A	-	39	11/2011
Growatt's 5000 MTL	250 - 550 V	96.2%	B	-	37	96.8%	A	-	32	7/2012
Kaco's Powador 4000 supreme DCS (9 kHz)	350 - 510 V	96.2%	B	A	37	96.7%	A	A+	39	1/2010
Kstar's New Energy KSG-3	190 - 440 V	96.1%	B	-	40	96.6%	A	-	41	8/2012
Tranergy's PVI 4600TL	300 - 500 V	96.1%	B	-	40	96.6%	A	-	41	8/2012
Growatt's 5000 TL	280 - 500 V	96.0%	B	-	42	96.8%	A	-	32	2/2011
Fronius' IG TL 5 0	350 - 700 V	95.9%	B	A	43	96.2%	B	A	44	9/2010
Kaco's Powador 4000 supreme DCS (18 kHz)	350 - 510 V	95.7%	B	A	44	96.1%	B	A	45	1/2010
SMA's SB 5000TL-20	175 - 440 V	95.7%	B	A	44	96.0%	B	A	46	5/2009
Sungrow's SG4KTL	210 - 420 V	95.6%	B	-	46	96.3%	B	-	43	1/2011
Sanjing Electric's SAJ Sununo TL5K	200 - 440 V	95.5%	B	-	47	96.0%	B	-	46	5/2012
Omnik New Energy's Omniksol-2k-TL	120 - 450 V	95.2%	B	-	49	95.9%	B	-	48	1/2012
Aros' Sirio 4000	250 - 450 V	95.1%	B	A	50	95.7%	B	A	51	12/2008

Mark: Rank list made by GoodWe according to the latest PHOTON test results by September, 2012.