

**APPENDIX
A12.3**

**NOISE SOURCE
SOUND POWER
LEVELS**



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DELTA Test Report



Measurement of Noise Emission from a Siemens SWT-3.6-107 Wind Turbine Situated at Høvsøre, Denmark

Performed for Siemens Wind Power A/S

AV 259/06
DANAK 2468
Project no.: A580293
Page 1 of 25 incl.
10 graph sheets and
5 annexes

6 November 2006

DELTA
Danish Electronics,
Light & Acoustics

Erhvervsvej 2A
8653 Them
Denmark

Tel. (+45) 72 19 48 00
Fax (+45) 72 19 48 01
www.delta.dk



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Title

Measurement of Noise Emission from a Siemens SWT-3.6-107 Wind Turbine Situated at Høvsøre, Denmark

Journal no.	Project no.	Our ref.	Date of test
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Client

Siemens Wind Power A/S
Borupvej 16
DK-7330 Brande
Denmark

Client ref.

Thomas R. Hansen

Test conditions

- IEC 61400-11:2002 "Wind turbine generator systems Part 11: Acoustic noise measurement techniques"
- IEC 61400-11:2002 Amendment 1:2006

Results

The noise emission from a Siemens SWT-3.6-107 wind turbine, situated at Høvsøre, Denmark, has been determined. The measurement results are shown in the below table. 95% of rated power is reached at approx. 8.8 m/s.

Wind speed	[m/s]	6	7	8	9	10
Power	[kW]	1500	2325	3075	3470	3600
Sound power level L_{WA}	[dB re 1 pW]	103.9	104.5	105.2	105.5	105.5
Audibility ΔL_a	[dB]	-2.7	-0.7	-1.3	0.0	-2.1

Them, 6 November 2006
DELTA

Bo Søndergaard

Bo Søndergaard
M.Sc. (Physics)
Acoustics

