



Emergya Wind Technologies BV

DW52/54

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Title:


Specification

Sound power warranty levels DW52/54

Revision	Date	Author	Approved	Description of changes
01	05-12-11	TY	TY	Added tonality statement
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-	-	-	-	-

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Sound power levels

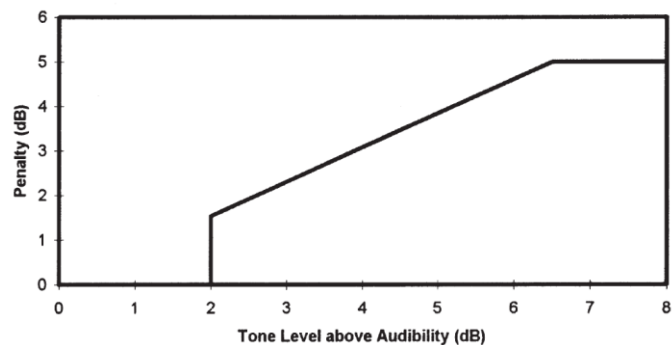
The warranted sound power levels are presented with reference to IEC 61400-11:2002.

V_{wind} at 10m height	DW52	DW54
5 m/s	97.7 dB(A)	98.2 dB(A)
6 m/s	99.6 dB(A)	100.0 dB(A)
7 m/s	101.0 dB(A)	101.4 dB(A)
8 m/s	101.5 dB(A)	102.0 dB(A)
9 m/s	101.5 dB(A)	102.0 dB(A)
10 m/s	101.5 dB(A)	102.0 dB(A)

Sound power level L_w in dB(A)

EWT declares that the tonal noise will not exceed warranted sound power levels when calculated according ETSU-R-97.

Note: According ETSU-R-97 the tone levels above audibility, also referred to as tonalities, are penalized as shown in the next figure.



The calculation of the standardized wind speed at 10m height according to IEC 61400-11 is based on a terrain roughness length $Z_0=0,05m$.

The values given in the table are valid for normal operational mode (rotation speed 0-26 RPM)

Measurements have to be performed according to the preferred methods set out in IEC-61400-11 by an independent measurement institute which is accredited to ISO/IEC 17025 to conduct measurements of wind turbine noise emissions.

In case the measurement which is to be executed and paid by the operator proves that the sound power or tonal noise exceeds the warranted levels, EWT shall be informed by submitting the detailed measurement report.

EWT reserves the right to make modifications or adjust settings in order to comply with the warranted sound power levels.

Lower sound power levels can be achieved by controlling the turbine in noise restricted operation; this will reduce the power output of the turbine. Contact EWT for further information on this option.

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