

Appendix A Wind turbine generator parameters

Technical parameters of the wind turbine generator

Table 27 Extract from technical specification for Vestas V90-3MW wind turbine generator

Make and model	Vestas V90 3MW
Rotor diameter, m	90
Hub height, m	80
Orientation	Upwind
Rotor speed, rpm	8.6–18.4
Cut-in wind speed (hub height, m/s)	3.5
Rated power wind speed (hub height, m/s)	15
Cut-out wind speed (hub height, m/s)	25
Sound power L_{WA} at 8m/s (10 m AGL, dBA), Mode 0	107.0

Table 28 Sound power levels [dB(A)] versus wind turbine generator wind speed for Vestas V90–3MW turbine

Wind speed at 10 m AGL, m/s	4	5	6	7	8	9	10	11	12	13
Sound power level (Noise Mode 0)	97.9	100.9	104.2	106.1	107.0	106.9	105.6	105.2	105.3	105.4