



A-weighted sound pressure level @ 7 meters, dB(A)

See notes 2, 5 and 7-11 listed below

Configuration	Exhaust	Applied load	Position (note 1)								8 Position average
			1	2	3	4	5	6	7	8	
Enclosed	Genset mounted muffler	@ 75% load	64.9	65.4	64.6	67.0	68.4	67.7	64.3	65.7	66.2
		@ 100% load	65.6	66.0	64.7	67.7	68.5	67.6	64.4	65.6	66.5
		@ 110% load	66.0	66.8	65.6	68.0	68.5	68.3	65.6	66.3	67.1

A-weighted sound pressure level @ 1 meter, dB(A)

See notes 1, 5 and 7-12 listed below

Configuration	Exhaust	Distance from the boundary of the enclosure	Sound Pressure Level dB(A) @ 75 % load EN ISO 8528	Sound Pressure Level dB(A) @ 100 % load (Prime) EN ISO 8528	Sound Pressure Level dB(A) @ 110 % load (Standby) EN ISO 8528
Enclosed	Genset mounted muffler	@ 1m	76.9	77.8	78.0
		@ 15m*	59.6*	59.9*	60.4*

A-weighted sound power level, dB(A)

See notes 1, 3 and 6-11 listed below

Configuration	Exhaust	Applied load	Octave band center frequency (Hz)											Overall sound power level
			16	31.5	63	125	250	500	1000	2000	4000	8000	16000	
Enclosed	Genset mounted muffler	@ 75% load	NA	58.0	82.5	84.7	91.5	90.3	88.5	88.5	82.2	74.1	65.4	96.6
		@ 100% load	NA	58.0	81.8	86.7	92.4	90.9	89.1	89.6	83.3	75.5	68.5	97.5
		@ 110% load	NA	57.9	82.0	86.8	92.6	91.0	89.1	89.9	83.8	76.3	69.5	97.6

A-weighted exhaust sound power level, dB(A)

See note 4-6 and 9 listed below

Open exhaust (no muffler rated load)	Octave band center frequency (Hz)											Overall sound power level
	16	31.5	63	125	250	500	1000	2000	4000	8000	16000	
	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

Note:

1. Sound pressure levels at 1 meter are measured per the requirements of ISO 3744, ISO 8528-10, ANSI S1.13, ANSI S12.1 and European Communities Directive 2000/14/EC as applicable. The microphone measurement locations are 1 meter from a reference parallelepiped just enclosing the generator set (enclosed or unenclosed).
2. Seven-meter measurement location 1 is 7 meters (23 feet) from the generator (alternator) end of the generator set, and the locations proceed counterclockwise around the generator set at 45° angles at a height of 1.2 meters (48 inches) above the ground surface.
3. Sound power levels are calculated according to ISO 3744, ISO 8528-10, and or CE (European Union) requirements.
4. Exhaust sound levels are measured and calculated per ISO 6798, Annex A.
5. Reference sound pressure level is 20 μ Pa.
6. Reference sound power level is 1 pW (10^{-12} Watt).
7. Sound data for remote-cooled generator sets are based on rated loads without cooling fan noise.
8. Sound data for the generator set with infinite exhaust do not include the exhaust noise contribution.
9. Sound levels are subject to instrumentation, measurement, installation, and manufacturing variability.
10. Unhoused/open configuration generator sets refers to generator sets with no sound enclosures of any kind.
11. Housed/enclosed/closed/canopy configuration generator sets refer to generator sets that have noise reduction sound enclosures installed over the generator set and usually integrally attached to the skid base/base frame/fuel container base of the generator set.
12. *Sound pressure levels are calculated and not measured.