

A-weighted Sound Pressure Level @ 7 meters, dB(A) See notes 2, 5 and 7-11 listed below

| Configuration | Fub acces | Applied | | 10100 2, 0 | | | (Note 2) | | | | 8 Position Average |
|--|---------------------|-----------------|------|------------|------|------|----------|------|------|------|--------------------------|
| | Exhaust | Load | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| Standard – Unhoused (50°C Cooling Package) | | 0% Prime | 79.2 | 84.9 | 84.9 | 85.9 | 86.7 | 85.6 | 84.8 | 84.9 | 85.0 |
| | | 25% Prime | 80.5 | 86.2 | 86.3 | 87.2 | 88.3 | 86.7 | 86.2 | 86.0 | 86.3 |
| | Infinite Exhaust | 50% Prime | 80.0 | 85.3 | 85.3 | 86.2 | 85.9 | 85.9 | 84.7 | 85.0 | 85.1 |
| | | 75% Prime | 80.4 | 85.1 | 85.4 | 85.5 | 82.4 | 85.4 | 85.1 | 84.7 | 84.5 |
| | | 100% Prime | 81.7 | 87.1 | 87.9 | 87.7 | 87.6 | 86.7 | 86.7 | 86.2 | 86.8 |
| | | 100% Standby | 81.7 | 86.9 | 88.7 | 87.6 | 86.3 | 86.6 | 86.4 | 86.0 | 86.6 |
| | | 0% Prime | 62.6 | 63.8 | 61.0 | 64.9 | 65.1 | 64.5 | 62.0 | 63.7 | 63.7 |
| | | 25% Prime | 63.7 | 65.4 | 61.7 | 65.8 | 66.4 | 65.7 | 62.9 | 65.2 | 64.8 |
| Enclosed | Mounted | 50% Prime | 64.9 | 66.1 | 62.0 | 66.2 | 66.6 | 66.2 | 63.8 | 65.8 | 65.4 |
| (50°C Cooling Package) | Muffler | 75% Prime | 66.3 | 67.1 | 62.6 | 66.7 | 66.9 | 67.0 | 65.2 | 67.5 | 66.4 |
| | | 100% Prime | 66.5 | 67.0 | 63.0 | 67.1 | 66.9 | 67.0 | 65.7 | 67.3 | 66.5 |
| | | 100% Standby | 66.3 | 66.9 | 63.2 | 67.2 | 66.8 | 67.1 | 65.6 | 67.0 | 66.4 |



Average A-weighted Sound Pressure Level @ 1 meter, dB(A) See notes 1, 5 and 7-14 listed below

| Configuration | | | | 0 110100 | 3 1, 0 0 | | e Band | | | ncy (Hz) | | | | Overall |
|--|---------------------|-----------------|-----|----------|----------|------|--------|------|------|----------|------|------|-------|----------------------------|
| | Exhaust | Applied Load | 16 | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | 16000 | Sound Pressure Level |
| Standard – Unhoused (50°C Cooling Package) | | 0% Prime | N/A | 38.5 | 54.7 | 71.2 | 87.2 | 86.0 | 89.4 | 89.0 | 82.6 | 75.1 | 63.7 | 94.5 |
| | | 25% Prime | N/A | 38.3 | 59.3 | 71.9 | 86.9 | 86.7 | 90.9 | 90.0 | 83.5 | 77.3 | 65.6 | 95.4 |
| | Infinite Exhaust | 50% Prime | N/A | 38.8 | 63.3 | 72.5 | 85.5 | 86.0 | 89.0 | 89.1 | 82.9 | 78.5 | 66.7 | 94.2 |
| | | 75% Prime | N/A | 39.1 | 65.8 | 73.9 | 86.1 | 86.6 | 89.0 | 88.8 | 83.0 | 79.4 | 68.3 | 94.4 |
| | | 100% Prime | N/A | 39.7 | 67.2 | 75.2 | 88.0 | 87.1 | 89.8 | 89.7 | 84.2 | 79.4 | 76.9 | 95.4 |
| | | 100% Standby | N/A | 39.6 | 67.9 | 75.4 | 86.8 | 86.7 | 89.6 | 89.6 | 84.4 | 79.9 | 75.3 | 95.1 |
| | Mounted | 0% Prime | N/A | 42.4 | 59.1 | 68.9 | 74.6 | 70.3 | 67.8 | 64.9 | 57.6 | 47.5 | 35.5 | 77.6 |
| | | 25% Prime | N/A | 43.3 | 62.3 | 68.9 | 74.7 | 70.4 | 68.1 | 64.8 | 57.8 | 48.4 | 35.9 | 77.8 |
| Enclosed (50°C Cooling | | 50% Prime | N/A | 43.4 | 62.0 | 69.1 | 74.8 | 70.7 | 67.7 | 64.6 | 57.8 | 49.1 | 37.3 | 77.9 |
| Package) | Muffler | 75% Prime | N/A | 43.3 | 62.4 | 69.7 | 74.8 | 71.1 | 67.9 | 64.8 | 58.5 | 50.5 | 40.1 | 78.1 |
| | | 100% Prime | N/A | 43.9 | 62.6 | 70.1 | 74.8 | 71.4 | 68.1 | 65.5 | 59.6 | 52.4 | 45.2 | 78.3 |
| | | 100% Standby | N/A | 43.6 | 62.5 | 69.4 | 74.7 | 70.7 | 67.8 | 64.7 | 58.0 | 49.6 | 39.3 | 77.9 |



A-weighted Sound Pressure Level @ Operator Location, dB(A) See notes 1, 5 and 7-15 listed below

| Configuration | | | | | , | | ave Ban | | er Frequ | ency (Hz | :) | | | Overall |
|--|---------------------|-----------------|-----|------|------|------|---------|------|----------|----------|------|------|-------|----------------------------|
| | Exhaust | Applied Load | 16 | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | 16000 | Sound Pressure Level |
| Standard – Unhoused (50°C Cooling Package) | | 0% Prime | N/A | 38.8 | 57.1 | 73.6 | 84.3 | 85.5 | 90.6 | 90.4 | 82.7 | 76.1 | 63.0 | 94.9 |
| | | 25% Prime | N/A | 38.7 | 59.5 | 72.7 | 86.0 | 87.5 | 92.4 | 91.6 | 84.4 | 79.5 | 66.1 | 96.6 |
| | Infinite Exhaust | 50% Prime | N/A | 38.9 | 61.6 | 73.3 | 84.3 | 85.8 | 90.5 | 90.7 | 83.7 | 80.3 | 67.7 | 95.2 |
| | | 75% Prime | N/A | 39.3 | 66.0 | 74.5 | 84.4 | 86.5 | 90.1 | 90.3 | 83.4 | 80.7 | 70.2 | 95.0 |
| | | 100% Prime | N/A | 40.6 | 68.4 | 75.1 | 87.3 | 87.9 | 91.1 | 91.0 | 84.7 | 81.3 | 74.6 | 96.2 |
| | | 100% Standby | N/A | 41.2 | 69.1 | 75.4 | 86.8 | 87.6 | 91.4 | 91.3 | 85.0 | 81.6 | 74.7 | 96.4 |
| | | 0% Prime | N/A | 35.6 | 51.5 | 64.8 | 67.1 | 64.9 | 61.9 | 59.6 | 52.6 | 42.6 | 29.3 | 71.5 |
| | | 25% Prime | N/A | 35.9 | 53.7 | 65.7 | 67.9 | 65.7 | 63.4 | 60.8 | 53.6 | 45.6 | 32.4 | 72.4 |
| Enclosed (50°C Cooling | Mounted | 50% Prime | N/A | 35.9 | 55.6 | 67.7 | 69.2 | 66.1 | 61.7 | 59.9 | 53.4 | 46.8 | 32.5 | 73.3 |
| Package) | Muffler | 75% Prime | N/A | 36.3 | 57.8 | 68.6 | 68.9 | 67.0 | 61.7 | 59.7 | 54.3 | 48.4 | 36.4 | 73.7 |
| | | 100% Prime | N/A | 38.3 | 58.6 | 70.2 | 68.6 | 68.7 | 62.4 | 60.6 | 55.8 | 50.6 | 44.9 | 74.7 |
| | | 100% Standby | N/A | 37.0 | 59.3 | 70.1 | 68.3 | 68.6 | 62.6 | 60.6 | 56.3 | 51.2 | 42.8 | 74.6 |



A-weighted Sound Power Level, dB(A) See notes 1, 3 and 6-14 listed below

| Configuration | | | Octave Band Center Frequency (Hz) | | | | | | | | | | | |
|---|----------|-----------------|-----------------------------------|------|------|------|-------|-------|-------|-------|-------|------|-------|-------------------------|
| | Exhaust | Applied Load | 16 | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | 16000 | Sound Power Level |
| Standard – Unhoused (50°C Cooling Package) | | 0% Prime | N/A | 52.6 | 73.1 | 90.6 | 102.0 | 100.4 | 106.9 | 106.0 | 99.7 | 92.6 | 80.5 | 111.1 |
| | | 25% Prime | N/A | 53.0 | 78.3 | 91.1 | 103.0 | 101.9 | 108.1 | 107.2 | 101.1 | 95.0 | 82.4 | 112.3 |
| | Infinite | 50% Prime | N/A | 53.4 | 81.1 | 92.0 | 102.6 | 100.9 | 106.6 | 106.5 | 100.7 | 95.9 | 83.4 | 111.4 |
| | Exhaust | 75% Prime | N/A | 53.5 | 82.4 | 92.6 | 102.6 | 101.7 | 106.3 | 106.1 | 100.6 | 96.3 | 85.1 | 111.3 |
| | | 100% Prime | N/A | 54.6 | 83.1 | 93.3 | 104.0 | 102.8 | 107.4 | 108.1 | 102.1 | 96.8 | 92.4 | 112.8 |
| | | 100% Standby | N/A | 55.1 | 83.5 | 93.7 | 103.5 | 102.2 | 107.4 | 108.5 | 102.3 | 97.3 | 92.5 | 112.8 |
| | | 0% Prime | N/A | 59.5 | 77.0 | 82.9 | 87.5 | 85.7 | 82.7 | 80.8 | 74.2 | 63.7 | 50.2 | 91.8 |
| | | 25% Prime | N/A | 59.9 | 80.4 | 84.9 | 88.0 | 86.3 | 83.5 | 80.1 | 74.1 | 64.3 | 50.6 | 92.7 |
| Enclosed | Mounted | 50% Prime | N/A | 59.8 | 80.4 | 85.7 | 88.5 | 86.5 | 82.9 | 79.8 | 74.3 | 65.6 | 53.1 | 92.9 |
| (50°C Cooling Package) | Muffler | 75% Prime | N/A | 60.0 | 80.9 | 86.8 | 88.8 | 87.6 | 83.0 | 79.9 | 74.7 | 66.9 | 55.5 | 93.6 |
| | | 100% Prime | N/A | 60.6 | 81.1 | 86.2 | 88.8 | 88.2 | 83.6 | 80.8 | 76.5 | 69.4 | 61.2 | 93.7 |
| | | 100% Standby | N/A | 60.5 | 81.5 | 86.0 | 88.6 | 88.2 | 83.7 | 81.1 | 77.0 | 70.4 | 60.8 | 93.7 |

Exhaust Sound Power Level, dB(A)

See notes 4 and 6-14 listed below

| | | | | | Oc | tave Ban | d Cente | r Frequen | cy (Hz) | | | | Overall |
|--|-----------------|-----|------|------|-------|----------|---------|-----------|---------|-------|-------|-------|-------------------------|
| Configuration | Applied Load | 16 | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | 16000 | Sound Power Level |
| Standard – Unhoused (With Tail Pipe) | 0% Prime | N/A | 52.3 | 85.4 | 104.8 | 100.1 | 98.6 | 101.7 | 100.3 | 95.0 | 91.6 | 74.8 | 108.9 |
| | 25% Prime | N/A | 53.9 | 90.9 | 108.8 | 103.4 | 105.8 | 104.5 | 103.4 | 98.6 | 95.5 | 78.4 | 113.0 |
| | 50% Prime | N/A | 50.5 | 93.2 | 108.4 | 107.0 | 106.6 | 106.4 | 107.5 | 102.9 | 100.0 | 86.8 | 114.7 |
| | 75% Prime | N/A | 52.8 | 94.7 | 110.5 | 109.9 | 109.6 | 109.6 | 112.0 | 106.2 | 103.2 | 89.5 | 117.9 |
| | 100% Prime | N/A | 54.3 | 96.0 | 112.1 | 113.5 | 112.4 | 115.0 | 116.9 | 110.6 | 106.2 | 92.3 | 121.9 |
| | 100% Standby | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 0% Prime | N/A | 32.9 | 72.4 | 74.2 | 71.2 | 72.4 | 73.6 | 74.2 | 69.1 | 62.3 | 48.4 | 81.3 |
| | 25% Prime | N/A | 35.3 | 80.5 | 74.5 | 73.3 | 75.2 | 77.2 | 76.5 | 70.1 | 64.8 | 51.5 | 84.9 |
| Enclosed | 50% Prime | N/A | 35.0 | 84.9 | 76.6 | 75.8 | 75.4 | 76.1 | 75.6 | 70.9 | 66.7 | 58.5 | 87.2 |
| (Mounted Muffler) | 75% Prime | N/A | 36.2 | 85.2 | 82.3 | 79.7 | 76.6 | 75.5 | 75.1 | 71.6 | 67.5 | 62.7 | 88.6 |
| | 100% Prime | N/A | 39.7 | 84.0 | 82.7 | 80.1 | 79.1 | 78.5 | 78.5 | 74.6 | 70.3 | 66.3 | 89.1 |
| | 100% Standby | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

Global Notes:

- Sound pressure levels at 1 meter are measured per the requirements of ISO 3744, ISO 8528-10, 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).
- Seven-meter measurement location 1 is 7 meters (23 feet) from the generator (alternator) end of the generator set, and the
 locations proceed counter-clockwise 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.
- Reference Sound Pressure Level is 20 μPa.
- 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. Published sound levels are measured at CE certified test site and 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. Published sound levels meet the requirements India's Central Pollution Control Board (Ministry of Environment & Forests),vide GSR 371 (E), which states the A-weighted sound level at1meter from any diesel generator set up to a power output rating of 1000kVA shall not exceed 75dB(A)
- 13. For updated noise pollution information for India see website: http://www.envfor.nic.in/legis/legis.html
- Sound levels must meet India's Ambient Air Noise Quality Standards detailed for Daytime/Night-time operation in Noise Pollution (Regulation and Control) Rules, 2000
- 15. Operator Location is near genset control panel and is at 1 meter distance from genset control panel and at 1.6 meter height.