

## 3456 SOUND ATTENUATED ENCLOSURES



### FEATURES

- Approved for use with Cat UL 2200 Listed generator set packages (which allows conversion of UL 2200) Listed open engine generator set package to a UL 2200 Listed enclosed engine generator set package.
- Durable, weather-resistant, steel enclosure, zinc phosphate treated for corrosion resistance
- Environmentally friendly, polyester powder baked paint enhances durability and appearance
- Safety glass, control panel viewing window is standard for easy monitoring of operation
- Externally mounted emergency stop button provides for safe operation
- Rust free stainless steel locks and hinges and zinc plated hardware
- Lockable enclosure secures access to fuel fill, oil fill, coolant and battery
- Enclosures designed with single point lift for easy handling
- Lube oil, coolant and fumes disposal lines terminated on baseframe
- Radiator site gauge provides easy verification of coolant level from the ground
- Critical exhaust silencing system housed within the enclosure on units
- Sound attenuated for safety and maximum product life. System factory installed.
- Enclosure design incorporates rear-mounted circuit breaker and control panel and accepts a complete range of attachments
- Insulation has UL94-HF1 Flame Rating
- Factory installed

### OPTIONS

- Skid base with dragging point and fork truck pockets
- Interior maintenance light
- Yellow, white, beige or ASA61 gray paint



LEHE4557-00

## 3456 SOUND ATTENUATED ENCLOSURE OPERATING CHARACTERISTICS – LOW EMISSIONS (LE)

60 Hz Sound Attenuated Enclosure 1 Breaker (LE)			Ambient Capability*		Airflow Rate		Sound Pressure Levels dBA			Exhaust Back Pressure	
ekW	kVA	PP/SB	°C	°F	m³/s	CFM	1 m	7 m	15 m	kPa	in H <sub>2</sub> O
500	625	SB	40	104	8.6	18222	84.6	74.6	68.6	3.91	15.70
455	569	PP	40	103	8.6	18222	84.1	74.3	68.3	3.61	14.49
450	563	SB	46	115	8.6	18222	83.8	74.0	68.0	3.27	13.13
410	513	PP	45	113	8.6	18222	83.6	73.7	67.7	2.83	11.36
400	500	SB	52	126	8.6	18222	83.5	73.7	67.7	2.73	10.96
365	456	PP	51	123	8.6	18222	83.3	73.5	67.5	2.38	9.56
350	437	SB	52	126	7.6	16103	83.1	74.8	68.8	2.17	8.71
320	400	PP	49	120	7.6	16103	82.7	74.2	68.2	1.82	7.31
300	375	SB	58	136	7.6	16103	82.6	74.0	68.0	1.38	5.54
275	343	PP	55	131	7.6	16103	82.4	73.8	67.8	1.28	5.14

\*Ambient measured with Caterpillar Extended Life Coolant.

60 Hz Sound Attenuated Enclosure 2 Breaker (LE)			Ambient Capability*		Airflow Rate		Sound Pressure Levels dBA			Exhaust Back Pressure	
ekW	kVA	PP/SB	°C	°F	m³/s	CFM	1 m	7 m	15 m	kPa	in H <sub>2</sub> O
500	625	SB	41	106	9.1	19282	84.5	74.4	68.4	3.91	15.70
455	569	PP	41	106	9.1	19282	84.1	73.8	67.8	3.61	14.49
450	563	SB	47	117	9.1	19282	84.1	73.7	67.7	3.27	13.13
410	513	PP	46	115	9.1	19282	83.9	73.5	67.5	2.83	11.36
400	500	SB	54	129	9.1	19282	83.9	73.5	67.5	2.73	10.96
365	456	PP	52	126	9.1	19282	83.7	73.3	67.3	2.38	9.56
350	437	SB	53	127	8.0	16951	83.5	74.8	68.8	2.17	8.71
320	400	PP	51	124	8.0	16951	82.8	74.1	68.1	1.82	7.31
300	375	SB	59	138	8.0	16951	82.7	73.9	67.9	1.38	5.54
275	343	PP	56	133	8.0	16951	82.5	73.7	67.7	1.28	5.14

\*Ambient measured with Caterpillar Extended Life Coolant.

50 Hz Sound Attenuated Enclosure (LE)			Ambient Capability*		Airflow Rate		Sound Pressure Levels dBA			Exhaust Back Pressure	
kVA	ekW	PP/SB	°C	°F	m³/s	CFM	1 m	7 m	15 m	kPa	in H <sub>2</sub> O
500	400	SB	43	110	7.3	15468	79.7	69.5	63.5	2.72	10.92
455	364	PP	43	110	7.3	15468	79.8	69.7	63.7	2.22	8.91
450	360	SB	50	122	7.3	15468	79.4	69.1	63.1	2.15	8.63
410	328	PP	49	120	7.3	15468	79.2	68.8	62.8	1.87	7.51
400	320	SB	56	133	7.3	15468	79.1	68.7	62.7	1.80	7.23
365	292	PP	55	131	7.3	15468	78.9	68.5	62.5	1.57	6.30
350	280	SB	58	136	6.4	13561	78.8	69.5	63.5	1.38	5.54
320	256	PP	55	131	6.4	13561	78.6	69.1	63.1	1.13	4.54
300	240	SB	62	144	6.4	13561	78.4	69.0	63.0	0.97	3.89
275	220	PP	59	138	6.4	13561	78.3	68.9	62.9	0.76	3.05

\*Ambient measured with Caterpillar Extended Life Coolant.

## 3456 SOUND ATTENUATED ENCLOSURE OPERATING CHARACTERISTICS – LOW FUEL CONSUMPTION (LBSFC)

60 Hz Sound Attenuated Enclosure 1 Breaker (LBSFC)			Ambient Capability*		Airflow Rate		Sound Pressure Levels dBA			Exhaust Back Pressure	
ekW	kVA	PP/SB	°C	°F	m³/s	CFM	1 m	7 m	15 m	kPa	in H <sub>2</sub> O
500	625	SB	42	107	8.6	18222	85.3	75.1	69.1	3.81	15.30
455	569	PP	41	105	8.6	18222	84.4	74.2	68.2	3.39	13.61
450	563	SB	47	117	8.6	18222	84.4	74.2	68.2	3.21	12.89
410	513	PP	46	114	8.6	18222	84.1	74.0	68.0	2.68	10.76
400	500	SB	53	127	8.6	18222	84.0	74.0	68.0	2.54	10.20
365	456	PP	50	123	8.6	18222	83.8	73.8	67.8	2.07	8.31
350	437	SB	54	129	7.6	16103	84.3	75.5	69.5	1.89	7.59
320	400	PP	51	124	7.6	16103	84.0	75.2	69.2	1.49	5.98
300	375	SB	59	138	7.6	16103	83.8	75.0	69.0	1.23	4.94
275	343	PP	56	133	7.6	16103	83.6	74.8	68.8	0.90	3.61

\*Ambient measured with Caterpillar Extended Life Coolant.

60 Hz Sound Attenuated Enclosure 2 Breaker (LBSFC)			Ambient Capability*		Airflow Rate		Sound Pressure Levels dBA			Exhaust Back Pressure	
ekW	kVA	PP/SB	°C	°F	m³/s	CFM	1 m	7 m	15 m	kPa	in H <sub>2</sub> O
500	625	SB	42	108	9.1	19282	85.1	74.8	68.8	3.81	15.30
455	569	PP	41	106	9.1	19282	84.6	74.2	68.2	3.39	13.61
450	563	SB	48	118	9.1	19282	84.6	74.2	68.2	3.21	12.89
410	513	PP	47	117	9.1	19282	84.3	74.0	68.0	2.68	10.76
400	500	SB	54	129	9.1	19282	84.3	74.0	68.0	2.54	10.20
365	456	PP	52	126	9.1	19282	84.1	73.8	67.8	2.07	8.31
350	437	SB	54	129	8.0	16951	84.2	75.5	69.5	1.89	7.59
320	400	PP	52	126	8.0	16951	84.0	75.1	69.1	1.49	5.98
300	375	SB	60	140	8.0	16951	83.8	74.9	68.9	1.23	4.94
275	343	PP	57	135	8.0	16951	83.6	74.7	68.7	0.90	3.61

\*Ambient measured with Caterpillar Extended Life Coolant.

50 Hz Sound Attenuated Enclosure (LBSFC)			Ambient Capability*		Airflow Rate		Sound Pressure Levels dBA			Exhaust Back Pressure	
kVA	ekW	PP/SB	°C	°F	m³/s	CFM	1 m	7 m	15 m	kPa	in H <sub>2</sub> O
500	400	SB	49	120	7.3	15468	79.1	69.1	63.1	1.90	7.63
455	364	PP	47	117	7.3	15468	78.8	68.7	62.7	1.56	6.27
450	360	SB	54	129	7.3	15468	78.8	68.5	62.5	1.53	6.12
410	328	PP	52	125	7.3	15468	78.5	68.3	62.3	1.24	4.98
400	320	SB	59	138	7.3	15468	78.5	68.2	62.2	1.17	4.70
365	292	PP	56	134	7.3	15468	78.3	67.9	61.9	0.92	3.69
350	280	SB	58	136	6.4	13561	80.5	70.4	64.4	0.80	3.21
320	256	PP	55	131	6.4	13561	79.9	69.9	63.9	0.58	2.33
300	240	SB	63	145	6.4	13561	79.7	69.7	63.7	0.44	1.77
275	220	PP	60	140	6.4	13561	79.4	69.4	63.4	0.26	1.04

\*Ambient measured with Caterpillar Extended Life Coolant.

## ENCLOSURE DIMENSIONS

Generator Set PGS Model	3456
<b>Enclosure Dimensions</b>	
Length — mm (inch)	5800 (228)
Width — mm (inch)	1600 (63)
Height w/o base — mm (inch)*	2000 (79)
<b>Approx. Weight of Enclosure**</b>	
kg (lb)	1139 (2511)

\*Enclosure height includes exhaust system/lifting eye, excludes base height.

\*\*Enclosure weight only includes: Sound Attenuated enclosure, exhaust system and extended base.



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