

Oil & Gas Ratings Guide

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Caterpillar: Making Sustainable Progress Possible

A sustainable product life cycle includes efficient and safe equipment operation for our customers – and technology for improved sustainability performance.

Improvement through fuel diversity

Delivering customer value with greater operational flexibility and lower fuel costs is at the heart of our natural gas strategy. Dynamic Gas Blending™ (DGB™) technology, for example, has led to the first-ever dual-fuel engine – using both diesel and natural gas – for select Cat® 3500 Series engines. In production since April 2013 on land drilling, production and well-service applications, the DGB system allows an engine to run on diesel and natural gas simultaneously, with gas substitution rates of up to 70 percent. In North America the DGB dual-fuel technology is available as a retrofit kit. Exported engines are available with DGB dual-fuel capability from the factory, along with retrofit kit offerings. The customer benefits are clear: DGB can lower fuel costs by up to 50 percent compared to traditional diesel operation, while providing equivalent performance, as well as the flexibility to run on a wide variety of fuels – from associated gas to liquefied natural gas (LNG).

Abbreviations and Definitions

Duty Types

- Drill-El** Land electric drilling rating; output available with varying load for an unlimited time. Prime rating in accordance with ISO 8525. Typical load factor 60-70%
- Drill-M.** Land mechanical drilling rating; 100% of advertised engine rating used occasionally, but not over one hour followed by one hour period below 90% load per day for mechanical pumping and mechanical drilling applications. Typical load factor 60%
- Cont** Continuous rating; 100% of engine operating hours at 100% of rated power
- Prime** Prime no overload rating for power generation in oil and gas applications; output available with varying load for an unlimited time; output in accordance with ISO 8525.
- OS-Prime** Offshore prime rating with 10% overload capability for MCS certification; output available with varying load for an unlimited time; output in accordance with ISO 8525.
- MCR.** Maximum Continuous Rating (MCR) following reference conditions according to the International Association of Classification Societies (ACS) for main and auxiliary engines. An overload of 10% is permitted for one hour within 12 hours of operation.
- A.** For pumping, ventilation, well service mixing units, and customer specs – the power and speed capability of the engine which can be used to power well service equipment. The engine can be operated at maximum power and speed for up to 100% of the time without interruption or load cycling.
- B.** For oil field mechanical pumping/drilling, independent rotary drive, well service blenders, cementers, and stationary plant air compressors – the power and speed capability of the engine which can be used to power well service equipment. The maximum average load factor is 85% of rated engine power. The maximum time at rated load and speed is not to exceed 80% of the duty cycle, or 4 hour continuously.

- C..... For fire pump, offshore cranes, well service kill pumps, cementers, production pumps, and drills – the power and speed capability of the engine which can be used to power high pressure well service equipment. Also the power and speed capability of the engine which can be used to power mud pumps, rotary table, and drawworks through a mechanical drive. For intermittent service where maximum power and/or speed are cyclic. The maximum average load factor is 70% for C32 and smaller engines. The maximum average load factor for larger engines is 80%. the maximum time at rated load and speed is not to exceed 50% of the duty cycle, or one hour continuously, followed by a one hour period below 90% load. When used as a fire pump and NFPA certification is required, size the pump power to 90% of the advertised rating.
- D..... For fire pump, offshore cranes, and portable air compressors – the power and speed capability of the engine where maximum power is required for periodic overloads. The maximum average load factor is 50%, and the maximum time at rated load and speed is not to exceed 10% of the duty cycle, or 30 minutes continuously. When used as a fire pump and NFPA certification is required, size the pump power to 90% of the advertised rating.
- E..... For fire pump, offshore cranes, well fracturing, and cementing/kill pump – the power and speed capability of the engine which can be used to power high pressure well service equipment. For C32 engines and smaller, the maximum average load factor is 35%. For well fracturing engines, the maximum average load factor is 50%, and the maximum time at rated load and speed is less than 2.5 hours per year. For cementing and kill pump engines, the maximum average load factor is 40%, and the maximum time at rated load and speed is less than two hours per year. When used as a fire pump and NFPA certification is required, size the pump power to 90% of the advertised rating.

Emissions

CARB.....	California Air Resources Board
CARB T3 NR.....	California Air Resources Board U.S. EPA Tier 3 NR Nonroad Equivalent (Not Currently EPA Certified)
BSFC.....	Brake Specific Fuel Consumption
CCNR.....	Central Commission for Navigation on the Rhine
CCNR Stage 2.....	Central Commission for Navigation on the Rhine Stage 2
China On-hwy IV.....	China On-highway Phase IV
China II NRNC.....	China Stage II Nonroad and Non-Certified
China III NR.....	China Stage III Nonroad Mobile
China Phase IV.....	China Phase IV
EPA ESE.....	EPA Certified for Stationary Emergency Application
EPA T1 M.....	U.S. EPA Marine Tier 1 Commercial
EPA T1 NR.....	U.S. EPA Tier 1 Nonroad Equivalent (Not Currently EPA Certified)
EPA T2 M.....	U.S. EPA Marine Tier 2 Commercial
EPA T2 NR.....	U.S. EPA Tier 2 Nonroad Equivalent (Not Currently EPA Certified)
EPA T2 NR ¹	EPA Certified for Stationary Emergency Application (Emits Equivalent U.S. EPA Tier 2 Nonroad Standards)
EPA T3 M.....	U.S. EPA Marine Tier 3 Commercial
EPA T3 NR.....	U.S. EPA Tier 3 NR Nonroad Equivalent (Not Currently EPA Certified)
EPA T3 NR ¹	EPA Certified for Stationary Emergency Application (Emits Equivalent U.S. EPA Tier 3 NR Nonroad Standards)
EPA T4f.....	U.S. EPA Tier 4 Final
EPA T4f NRG.....	U.S. EPA Tier 4 Final Nonroad Genset Equivalent (Certified to U.S. EPA & California ARB Tier 4 Interim Nonroad Genset Standards)
EPA T4f NRNG.....	U.S. EPA Tier 4 Final Nonroad Non-Genset Equivalent (Certified to U.S. EPA & California ARB Tier 4 Interim Nonroad Non-Genset Standards)
EPA T4i.....	U.S. EPA Tier 4 Interim
EPA T4i NRG.....	U.S. EPA Tier 4 Interim Nonroad Genset Standards (Not Currently EPA Certified)
EPA T4i NRNG.....	U.S. EPA Tier 4 Interim Nonroad Non-Genset Standard (Not Currently EPA Certified)
EU II NRNC.....	EU Stage II Nonroad and Non-Certified
EU IIIA NR.....	EU Stage IIIA Nonroad Equivalent (Non-Current for EU)
EU IIIB NR.....	EU Stage IIIB Nonroad Standards (Non-Current for EU)
EU IV NR.....	EU Stage IV Nonroad Standards

Emissions (continued)

IMO I	International Maritime Organization (IMO) Tier I
IMO II	International Maritime Organization (IMO) Tier II
IMO III	International Maritime Organization (IMO) Tier III
Low Emissions	Lean-burn stationary gas-fueled engine without mobile certification
NC	Non-certified
NRG	Nonroad Genset
NRNG	Nonroad Non-genset
NSPS Site Compliant ..	New Source Performance Standards Site Compliant Capable
UN R96 IIIA	UN Regulation No. 96 Tractor and NRMM Engine Emissions Stage IIIA
UN R96 IIIB	UN Regulation No. 96 Tractor and NRMM Engine Emissions Stage IIIB

Engine Configuration

ATAAC	Air-to-air Aftercooled
FMT	Front-mounted Turbochargers
Haz Loc	Hazardous Location Certified
HD	High Displacement
REMAC	Remote-mounted Aftercooler
RMT	Rear-mounted Turbochargers
SCAC	Separate-circuit Aftercooler

Fuels

CNG	Compressed Natural Gas
CRU	Crude Fuel
FG	Field Gas
HFO	Heavy Fuel Oil
LNG	Liquefied Natural Gas
MDO	Marine Diesel Oil
NG	Natural Gas

Performance

bhp	Brake engine power (horsepower)
bkW	Brake engine power (kilowatt)
BSFC	Brake Specific Fuel Consumption
ekW	Generator set electrical output (kilowatt)
kVA	Generator set electrical output (kilo Volt-Amp)
LE	Low Emissions
NA	Naturally Aspirated
TA	Turbocharged-aftercooled

Rating Conditions

Diesel Engines –

up to 6.6 liter All rating conditions are based on ISO/TR14396, inlet air standard conditions with a total barometric pressure of 100 kPa (29.5 in Hg), with a vapor pressure of 1 kPa (.295 in Hg), and 25°C (77°F). Performance measured using fuel to specification EPA 2D 89.330-96 with a density of 0.845-0.850 kg/L @ 15°C (59°F) and fuel inlet temperature 40°C (104°F).

Diesel Engines –

7 liter and higher All rating conditions are based on SAE J1995, inlet air standard conditions of 99 kPa (29.31 in Hg) dry barometer and 25°C (77°F) temperature. Performance measured using a standard fuel with fuel gravity of 35° API having a lower heating value of 42 780 kJ/kg (18,390 btu/lb) when used at 29°C (84.2°F) with a density of 838.9 g/L.

Gas Engines Ratings are based on SAE J1349 standard conditions of 100 kPa (29.61 in Hg) and 25°C (77°F). These ratings also apply at ISO3046, DIN6271, and BS5514 standard conditions of 100 kPa (29.61 in Hg) and 27°C (81°F); and API 7B-11C standard conditions of 99 kPa (29.28 in Hg) and 29°C (85°F) also apply.

Ratings are based on dry natural gas having an LHV of 35.54 MJ/Nm³ (905 btu/ft³). Variations in altitude, temperature, and gas composition from standard conditions may require a reduction in engine horsepower.

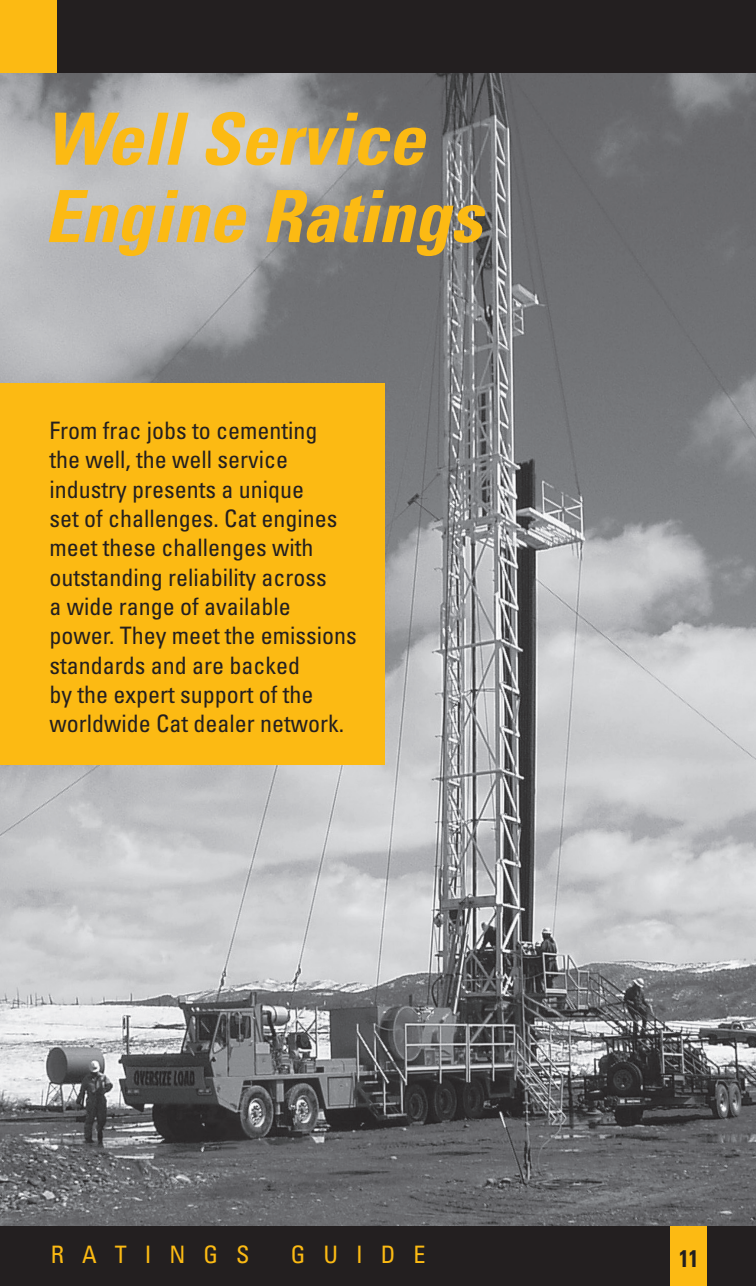
Turbocharged-aftercooled ratings apply to 1525 m (5000 ft) and 25°C (77°F)

ISO 9001:2000

Certification Factory-designed systems built at Caterpillar ISO 9001:2000 certified facilities.

To find spec sheets referenced in this guide go to:
www.catoilandgas.cat.com/products/engines

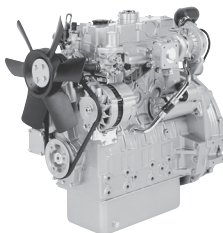
Well Service Engine Ratings

A black and white photograph of a large drilling rig mounted on a multi-axle truck. The rig is tall and slender, with a lattice structure. It is positioned in a snowy, open field under a cloudy sky. A worker in a hard hat and safety gear stands near the front of the truck. The truck has "OVERSIZE LOAD" written on its side. The background shows rolling hills or mountains.

From frac jobs to cementing the well, the well service industry presents a unique set of challenges. Cat engines meet these challenges with outstanding reliability across a wide range of available power. They meet the emissions standards and are backed by the expert support of the worldwide Cat dealer network.

Well Service Engine Ratings

bhp Range	Engine	Page Number
41.6-66	C2.2	13
72-142	C4.4 • C4.4 ACERT	14
128-275	C6.6 ACERT	15
188-300	C7 ACERT • C7.1 ACERT	16
275-400	C9 ACERT • C9.3 ACERT	17
325-450	C11 ACERT	18
385-520	C13 ACERT	19
440-595	C15 ACERT	20
575-800	C18 ACERT	21
800-1150	C27 ACERT	22
800-1350	C32 ACERT	23
2000-2250	3512B	24
2150-2500	3512C HD	25
2250-2500	3512E	26
3000-3300	3516C HD	27
205-1110	Hazardous Location	28
205-1225	Watercooled Manifold	29
680-1800	Watercooled Manifold	30
27-803	HazPak	31



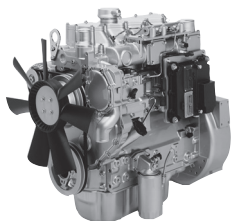
Well Service Ratings

Rating Tier	bkW	bhp	rpm	Emissions	Notes
C	31	41.6	2200	EPA T3 NR, EU IIIA NR	Naturally Aspirated
C	34.1	45.7	2400	EPA T3 NR, EU IIIA NR	Naturally Aspirated
C	35.7	47.9	2600	EPA T3 NR, EU IIIA NR	Naturally Aspirated, Derate to 31.4 bhp/42.1 bkW
C	37.3	50	2800	EPA T3 NR, EU IIIA NR	Naturally Aspirated Derate to 32.8 bhp/43.9 bkW
C	38	51	3000	EPA T3 NR, EU IIIA NR	Naturally Aspirated Derate to 34 bhp/45.6 bkW
C	40	53.3	2600	EPA T3 NR, EU IIIA NR	Turbocharged
C	43	57.7	2600	EPA T3 NR, EU IIIA NR	Turbocharged
C	44.7	60	2800	EPA T3 NR, EU IIIA NR	Turbocharged
C	45.5	61	3000	EPA T3 NR, EU IIIA NR	Turbocharged
C	49.2	66	2800	EPA T3 NR, EU IIIA NR	Turbocharged-Aftercooled

Specifications

	L – mm (in)	W – mm (in)	H – mm (in)	Wt – kg (lbs)	Disp – L (in ³)
NA	661.5 (26)	439 (17.3)	676 (26.6)	184 (406)	2.2 (135)
T, TA	662 (26.1)	489 (19.3)	698 (27.5)	194 (427.7)	2.2 (135)
Bore x Stroke – mm (in) 84 x 100 (3.3 x 3.9)					

For diesel engine rating definitions please see page 10.



Well Service Ratings

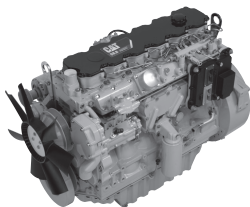
Rating	Tier	bkW	bhp	rpm	Emissions	Notes
C4.4						
C		54	72	2200	EPA T3 NR, EU IIIA NR	Naturally Aspirated
C		56	75	2200	EPA T3 NR, EU IIIA NR	Naturally Aspirated
C		56-75	75-100	2200-2400	EPA T3 NR, EU IIIA NR	Turbocharged
C4.4 ACERT						
C		62-75	83-99	2200	EPA T3 NR, EU IIIA NR	Turbocharged
C		68-83	91-111	2200-2400	EPA T3 NR, EU IIIA NR	Turbocharged- Aftercooled
C		75-106	100-142	2200	EPA T3 NR, EU IIIA NR, EPA T4f NRNG	Turbocharged- Aftercooled

Specifications

	L – mm (in)	W – mm (in)	H – mm (in)	Wt – kg (lbs)	Disp – L (in³)
C4.4	663 (26.1)	597 (23.5)	810 (32)	306 (675)	4.4 (269)
C4.4 ACERT	631 (24.8)	626 (24.7)	824 (32)	360 (794)	4.4 (269)

Bore x Stroke – mm (in) 105 x 127 (4.1 x 5)

For diesel engine rating definitions please see page 10.



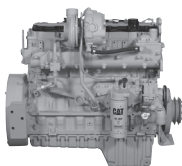
Well Service Ratings

Rating	Tier	bkW	bhp	rpm	Emissions	Notes
C		95	128	2200	EPA T3 NR, EU IIIA NR	Turbocharged-Aftercooled
C		116	156	2200	EPA T3 NR, EU IIIA NR	Turbocharged-Aftercooled
C		129	173	2000-2500	EPA T3 NR, EU IIIA NR	Turbocharged-Aftercooled
C		130	174	1800-2500	EPA T3 NR, EU IIIA NR	Turbocharged-Aftercooled
C		136	182	2200	EPA T3 NR, EU IIIA NR	Turbocharged-Aftercooled
C		140	188	2200	EPA T3 NR, EU IIIA NR	Turbocharged-Aftercooled
C		144	193	2200	EPA T3 NR, EU IIIA NR	Turbocharged-Aftercooled
C		146	196	2200	EPA T3 NR, EU IIIA NR	Turbocharged-Aftercooled
C		151	203	1800-2200	EPA T3 NR, EU IIIA NR	Turbocharged-Aftercooled
C		159	213	2200	EPA T3 NR, EU IIIA NR	Turbocharged-Aftercooled
C		168	225	2200	EPA T3 NR, EU IIIA NR	Turbocharged-Aftercooled
C		176	236	2200	EPA T3 NR, EU IIIA NR	Turbocharged-Aftercooled
C		186	250	2200	EPA T3 NR, EU IIIA NR	Turbocharged-Aftercooled
C		205	275	2200	EPA T3 NR, EU IIIA NR	Turbocharged-Aftercooled

Specifications

	L – mm (in)	W – mm (in)	H – mm (in)	Wt – kg (lbs)	Disp – L (in³)
C6.6 ACERT	929 (34)	668 (26.3)	797 (31.4)	506 (1116)	6.6 (403)
Bore x Stroke – mm (in)	105 x 127 (4.1 x 5)				

For diesel engine rating definitions please see page 10.



Well Service Ratings

Rating Tier	bkW	bhp	rpm	Emissions	Notes
C7 ACERT					
D	205	275	2200	IMO II, EPA T2 M, EPA T3 NR, EU IIIA NR	Watercooled, SCAC, REMAC avail
B	153	205	2200	IMO II, EPA T2 M, EPA T3 NR, EU IIIA NR	Haz Loc, SCAC only
C	172	230	2200	IMO II, EPA T2 M, EPA T3 NR, EU IIIA NR	Haz Loc, SCAC only
B	168	225	2200	IMO II, EPA T3 NR, EU IIIA NR China II NR	Dry Manifold, ATAAC
C	186	250	2200	IMO II, EPA T3 NR, EU IIIA NR China II NR	Dry Manifold, ATAAC
D	224	300	2200	IMO II, EPA T3 NR, EU IIIA NR, China II NR	Dry Manifold, ATAAC
C7.1 ACERT					
B	141	188	1800-2200	EPA T4i NRG, EU IIIB NR	Dry Manifold
B	168	225	1800-2200	EPA T4f NRNG, EU IV NR	Dry Manifold
C	168	250	1800-2200	EPA T4f NRNG, EU IV NR	Dry Manifold
C	205	275	1800-2200	EPA T4f NRNG, EU IV NR	Dry Manifold

Specifications

	L – mm (in)	W – mm (in)	H – mm (in)	Wt – kg (lbs)	Disp – L (in ³)
C7 ACERT	1053 (41.5)	758 (29.8)	1032 (40.6)	629 (1386)	7.2 (439)
C7.1 ACERT	1065 (41.9)	820 (32.3)	907 (35.7)	715 (1576)	7.01 (427.7)
Bore x Stroke – mm (in)					
C7 ACERT	110 x 127 (4.3 x 5)				
C7.1 ACERT	105 x 135 (4.1 x 5.3)				

Please see spec sheet for more information:

C7 ACERT LEHW0043, LEHW0044, LEHW0045

For diesel engine rating definitions please see page 10.

Well Service Ratings

Rating Tier	bkW	bhp	rpm	Emissions	Notes
C9 ACERT					
C	242	325	2200	IMO II, EPA T3 NR, EU IIIA NR	Watercooled, SCAC, REMAC avail
D	254	340	2200	IMO II, EPA T3 NR, EU IIIA NR	Watercooled, SCAC, REMAC avail
D	254	340	2200	IMO II, EPA T3 NR, EU IIIA NR	Haz Loc, SCAC & REMAC avail, Derate option
A	205	275	2200	IMO II, EPA T3 NR, China NR III, EU IIIA NR	Dry Manifold
B	224	300	2200	IMO II, EPA T3 NR, EU IIIA NR, China NR III	Dry Manifold
C	242	325	2200	IMO II, EPA T3 NR, EU IIIA NR, China NR III	Dry Manifold
C	261	350	2200	IMO II, EPA T3 NR, EU IIIA NR, China NR III	Dry Manifold
D	280	375	2200	IMO II, EPA T3 NR, EU IIIA NR	Dry Manifold
C9.3 ACERT					
A	223	300	1800-2200	EPA T4i NRG, EU IIIB NR	Dry Manifold
B	242	325	1800-2200	EPA T4i NRG, EU IIIB NR	Dry Manifold
C	261	350	1800-2200	EPA T4i NRG, EU IIIB NR	Dry Manifold
A	224	300	1800-2200	EPA T4f NRNG, EU IV NR	Dry Manifold
B	242	325	1800-2200	EPA T4f NRNG, EU IV NR	Dry Manifold
C	261	350	1800-2200	EPA T4f NRNG, EU IV NR	Dry Manifold
D	298	400	1800-2200	EPA T4f NRNG, EU IV NR	Dry Manifold

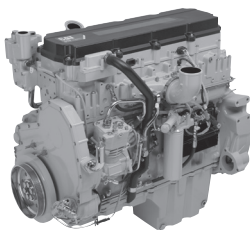
Specifications

	L – mm (in)	W – mm (in)	H – mm (in)	Wt – kg (lbs)	Disp – L (in ³)
C9 ACERT	1092 (43)	828 (32.6)	1024 (40.3)	716 (1578)	8.8 (537)
C9.3 ACERT	1150 (45.3)	828 (32.6)	1123 (44.21)	885 (1950)	9.3 (567.5)
Bore x Stroke – mm (in)					
C9 ACERT	112 x 149 (4.4 x 5.8)				
C9.3 ACERT	115 x 149 (4.5 x 5.9)				

Please see spec sheet for more information:

C9 ACERT LEHW0014, LEHW0046, LEHW0047
 C9.3 ACERT LEHW0099

For diesel engine rating definitions please see page 10.



Well Service Ratings

Rating Tier	bkW	bhp	rpm	Emissions	Notes
A	242	325	2100	IMO II, EPA T3 NR, EU IIIA NR, China III NR	Dry Manifold
B	261	350	2100	IMO II, EPA T3 NR, EU IIIA NR, China III NR	Dry Manifold
C	287	385	2100	IMO II, EPA T3 NR, EU IIIA NR, China III NR	Dry Manifold
D	313	420	2100	IMO II, EPA T3 NR, EU IIIA NR, China III NR	Dry Manifold
E	336	450	2100	IMO II, EPA T3 NR, EU IIIA NR, China III NR	Dry Manifold

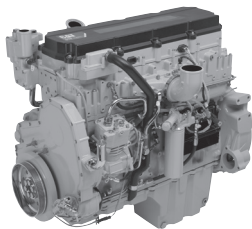
Specifications

	L – mm (in)	W – mm (in)	H – mm (in)	Wt – kg (lbs)	Disp – L (in ³)
C11 ACERT	1201 (47.3)	1057 (41.6)	1176 (46.3)	892 (1967)	11.15 (681)
Bore x Stroke – mm (in)	130 x 140 (5.12 x 5.5)				

Please see spec sheet for more information:

C11 ACERT LEHW0063

For diesel engine rating definitions please see page 10.



Well Service Ratings

Rating Tier	bkW	bhp	rpm	Emissions	Notes
A	287	385	1800-2100	IMO II, EPA T3 NR, EU IIIA NR, China III NR	Avail with Cat Compression Brake, Dry Manifold
B	309	415	1800-2100	IMO II, EPA T3 NR, EU IIIA NR, China III NR	Avail with Cat Compression Brake, Dry Manifold
C	328	440	1800-2100	IMO II, EPA T3 NR, EU IIIA NR, China III NR	Avail with Cat Compression Brake, Dry Manifold
D	354	475	1800-2100	IMO II, EPA T3 NR, EU IIIA NR, China III NR	Dry Manifold
E	388	520	1800-2100	IMO II, EPA T3 NR, EU IIIA NR, China III NR	Dry Manifold
A	287	385	1800-2100	EPA T4i NRG, EU IIIB NR	Dry Manifold
B	309	415	1800-2100	EPA T4i NRG, EU IIIB NR	Dry Manifold
C	328	440	1800-2100	EPA T4i NRG, EU IIIB NR	Dry Manifold
D	354	475	1800-2100	EPA T4i NRG, EU IIIB NR	Dry Manifold
E	388	520	1800-2100	EPA T4i NRG, EU IIIB NR	Dry Manifold
A	287	385	1800-2100	EPA T4f NRNG, EU IV NR	Dry Manifold
B	309	415	1800-2100	EPA T4f NRNG, EU IV NR	Dry Manifold
C	328	440	1800-2100	EPA T4f NRNG, EU IV NR	Dry Manifold
D	354	475	1800-2100	EPA T4f NRNG, EU IV NR	Dry Manifold
E	388	520	1800-2100	EPA T4f NRNG, EU IV NR	Dry Manifold

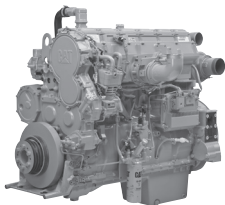
Specifications

	L – mm (in)	W – mm (in)	H – mm (in)	Wt – kg (lbs)	Disp – L (in³)
C13 ACERT	1201 (47.3)	1013 (39.9)	1186 (46.7)	896 (1976)	12.5 (763)
C13 ACERT T4	1203 (47.4)	933.14 (36.74)	1186 (46.7)	1350 (2976)	12.5 (763)
Bore x Stroke – mm (in) 130 x 157 (5.1 x 6.2)					

Please see spec sheet for more information:

C13 ACERT LEHW0062, LEHW0096

For diesel engine rating definitions please see page 10.



Well Service Ratings

Rating Tier	bkW	bhp	rpm	Emissions	Notes
A	328	440	1800-2100	IMO II, EPA T3 NR, EU IIIA NR, China III NR	Avail with Cat Compression Brake, Dry Manifold
B	354	475	1800-2100	IMO II, EPA T3 NR, EU IIIA NR, China II NR	Avail with Cat Compression Brake, Dry Manifold
C	403	540	1800-2100	IMO II, EPA T3 NR, EU IIIA NR, China II NR	Avail with Cat Compression Brake, Dry Manifold
D	433	580	2100	IMO II, EPA T3 NR, EU IIIA NR, China II NR	Dry Manifold
E	444	595	2100	IMO II, EPA T3 NR, EU IIIA NR, China II NR	Dry Manifold
D	400	536	1800-2000	EPA T2 M, IMO II, EPA T3 M	Haz Loc, SCAC, Watercooled
D	403	540	1800-2000	EPA T2 M, IMO II, EPA T3 M	Haz Loc, SCAC & REMAC, Watercooled
A/B	354	475	1800-2100	EPA T4i NRG, EU IIIB NR	Dry Manifold
C	403	540	1800-2100	EPA T4i NRG, EU IIIB NR, China Phase IV	Dry Manifold
D	433	580	1800-2100	EPA T4i NRG, EU IIIB NR	Dry Manifold
A/B	354	475	1800-2100	EPA T4f NRNG, EU IV NR	Dry Manifold
C	403	540	1800-2100	EPA T4f NRNG, EU IV NR,	Dry Manifold
D	433	580	1800-2100	EPA T4f NRNG, EU IV NR	Dry Manifold

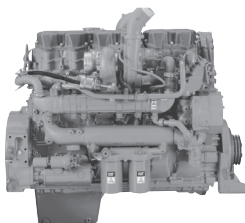
Specifications

	L – mm (in)	W – mm (in)	H – mm (in)	Wt – kg (lbs)	Disp – L (in³)
C15 ACERT	1377 (54)	927 (37)	1227 (48)	1245 (2743)	15.2 (927.6)
C15 ACERT T4	1530 (60.2)	961 (37.8)	1282 (51)	1666 (3673)	15.2 (927.6)
Bore x Stroke – mm (in) 137.2 x 171.5 (5.4 x 6.75)					

Please see spec sheet for more information:

C15 ACERT LEHW0097, LEHW0061

For diesel engine rating definitions please see page 10.



Well Service Ratings

Rating Tier	bkW	bhp	rpm	Emissions	Notes
A	429	575	2100	IMO II, EPA T3 NR, EU IIIA NR, China III NR	Avail with Cat Compression Brake, Dry Manifold
B	447	600	2100	IMO II, EPA T3 NR, EU IIIA NR, China III NR	Avail with Cat Compression Brake, Dry Manifold
C	470	630	2100	IMO II, EPA T3 NR, EU IIIA NR, China III NR	Avail with Cat Compression Brake, Dry Manifold
C	522	700	2100	IMO II, EPA T3 NR, EU IIIA NR, China III NR	Dry Manifold
D	570	765	2100	IMO II, EPA T2 NR	Dry Manifold
E	597	800	2100	IMO II, EPA T2 NR	Dry Manifold
A/B	447	600	1800-1900	EPA T4i NRG, EU IIIB NR	Dry Manifold
C	470	630	1800-1900	EPA T4i NRG, EU IIIB NR, China Phase IV	Dry Manifold
C	522	700	1800-1900	EPA T4i NRG, EU IIIB NR	Dry Manifold
C	563	755	1800	EPA T4f NRNG	Dry Manifold
D	597	800	1800	EPA T4f NRNG	Dry Manifold
A	429	575	2000	EPA T4f NRNG, EU IV NR	Dry Manifold
B	447	600	2000	EPA T4f NRNG, EU IV NR	Dry Manifold
C	470	630	2000	EPA T4f NRNG, EU IV NR	Dry Manifold

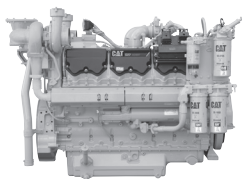
Specifications

	L – mm (in)	W – mm (in)	H – mm (in)	Wt – kg (lbs)	Disp – L (in³)
C18 ACERT	1389 (54.7)	919 (36.2)	1227 (49.5)	1273 (2807)	18.1 (1105)
C18 ACERT T4	1530 (60.2)	961 (37.8)	1282 (51)	1580 (3482)	18.1 (1105)
Bore x Stroke – mm (in)	145 x 183 (5.7 x 7.2)				

Please see spec sheet for more information:

C18 ACERT LEHW0098, LEHW0053, LEHW0109

For diesel engine rating definitions please see page 10.



Well Service Ratings

Rating Tier	bkW	bhp	rpm	Emissions	Notes
A	597	800	1800-2100	EPA T2 NR, China III NR	Dry Manifold
B	652	875	1800-2100	EPA T2 NR, China III NR	Dry Manifold
C	708	950	1800-2100	EPA T2 NR, China III NR	Dry Manifold
D	783	1050	1800-2100	EPA T2 NR, China III NR	Dry Manifold
E	858	1150	1800-2100	China III NR	Dry Manifold
A	597	800	1800	EPA T4f NRNG	Narrow Config, Dry Manifold
B	652	875	1800	EPA T4f NRNG	Narrow Config, Dry Manifold
C	708	950	1800	EPA T4f NRNG	Narrow Config, Dry Manifold

Specifications

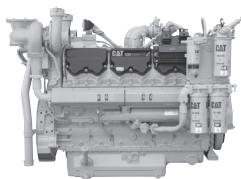
	L – mm (in)	W – mm (in)	H – mm (in)	Wt – kg (lbs)	Disp – L (in ³)
C27 ACERT	1918 (75.5)	1463 (57.6)	1321 (52)	2895 (6382)	27 (1648)
C27 ACERT T4	2160 (85)	1270 (50)	1650 (65)	2956 (6516)	27 (1648)

Bore x Stroke – mm (in) 137.7 x 152.4 (5.42 x 6)

Please see spec sheet for more information:

C27 ACERT LEHW0052, LEHW0101

For diesel engine rating definitions please see page 10.



Well Service Ratings

Rating Tier	bkW	bhp	rpm	Emissions	Notes
A	597	800	2100	EPA T2 NR, EPA T2 M, IMO II	Watercooled, SCAC, SCAC+ HEX, & REMAC
A	642	860	2100	EPA T2 NR, EPA T2 M, IMO II	Watercooled, SCAC, SCAC+ HEX, & REMAC
B	686	920	2100	EPA T2 NR, EPA T2 M, IMO II	Watercooled, SCAC, SCAC+ HEX, & REMAC
C	746	1000	2100	EPA T2 NR, EPA T2 M, IMO II	Watercooled, SCAC, SCAC+ HEX, & REMAC
D	828	1110	2100	EPA T2 NR, EPA T2 M, IMO II	Watercooled, SCAC, SCAC+ HEX, & REMAC
E	914	1225	2100	EPA T2 NR, EPA T2 M, IMO II	Watercooled, SCAC, SCAC+ HEX, & REMAC
A	597	800	2100	EPA T2 NR, EPA T2 M, IMO II	Haz Loc, SCAC only, Watercooled
A	642	860	2100	EPA T2 NR, EPA T2 M, IMO II	Haz Loc, SCAC only, Watercooled
B	686	920	2100	EPA T2 NR, EPA T2 M, IMO II	Haz Loc, SCAC only, Watercooled
D	828	1110	2100	EPA T2 NR, EPA T2 M, IMO II	Haz Loc, SCAC only, Watercooled
A	597	800	2100	EPA T2 NR, IMO II	Dry Manifold
B	708	950	1800-2100	China III NR, EPA T2 NR, IMO II	Dry Manifold
C	839	1125	1800-2100	China III NR, EPA T2 NR, IMO II	Dry Manifold
D	895	1200	1800-2100	China III NR, EPA T2 NR, IMO II	Dry Manifold
E	1007	1350	1800-2100	China III NR, EPA T2 NR, IMO II	Dry Manifold
C	839	1125	1800	EPA T4f NRNG	Dry Manifold

Specifications

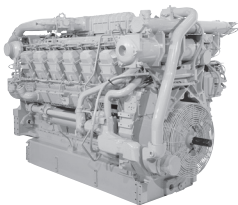
	L – mm (in)	W – mm (in)	H – mm (in)	Wt – kg (lbs)	Disp – L (in³)
C32 ACERT	1934.9 (76.18)	1431 (56.34)	1388.3 (54.66)	2286 (5040)	32 (1953)
C32 ACERT T4	1905 (75)	1600 (63)	1549 (61)	3107 (6850)	32 (1953)

Bore x Stroke – mm (in) 145 x 162 (5.7 x 6.4)

Please see spec sheet for more information:

C32 ACERT LEHW0049, LEHW0050, LEHW0051, LEHW0100

For diesel engine rating definitions please see page 10.



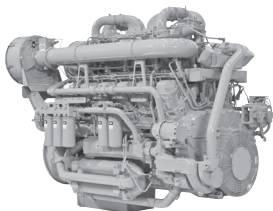
Well Service Ratings

Rating Tier	bkW	bhp	rpm	Emissions
E	1491	2000	1900	EPA T1 NR, EPA T1 M
E	1603	2150	1900	EPA T1 NR, EPA T1 M
E	1678	2250	1900	EPA T1 NR, EPA T1 M

Specifications

	L – mm (in)	W – mm (in)	H – mm (in)	Wt – kg (lbs)	Disp – L (in³)
3512B	2827 (111.3)	1793 (70.6)	1862 (73.3)	4803.6 (10,590)	52 (3173)
Bore x Stroke – mm (in)	170 x 190 (6.7 x 7.5)				

Please see spec sheet for more information:
 3512B LEHW0055
 For diesel engine rating definitions please see page 10.



Well Service Ratings

Rating	Tier	bkW	bhp	rpm	Emissions	Notes
E		1603	2150	1900	EPA T2 NR, EPA T2 M, IMO II, China III NR	ATAAC, 1.6% or 7% Torque Rise
E		1678	2250	1900	EPA T2 NR, EPA T2 M, IMO II, China III NR	ATAAC, 1.6% or 7% Torque Rise
E		1752	2350	1900	EPA T2 NR, EPA T2 M, IMO II, China III NR	ATAAC, 7% Torque Rise
E		1864	2500	1900	EPA T2 NR, EPA T2 M, IMO II, China III NR	ATAAC, 7% Torque Rise
E		1678	2250	1900	EPA T2 NR, EPA T2 M, IMO II, China III NR	SCAC, 1.6% or 7% Torque Rise
E		1864	2500	1900	EPA T2 NR, EPA T2 M, IMO II, China III NR	SCAC, 7% Torque Rise

Dynamic Gas Blending – Well Service Ratings

Rating	Tier	bkW	bhp	rpm	Emissions	Notes
E		1678	2250	1900	EPA T2 NR	Retrofit Kit Only
E		1864	2500	1900	EPA T2 NR	Retrofit Kit Only

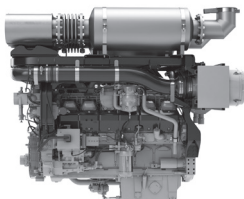
Specifications

	L – mm (in)	W – mm (in)	H – mm (in)	Wt – kg (lbs)	Disp – L (in ³)
3512C HD ATAAC	2804 (110.4)	1504 (59.2)	2192 (86.3)	6200 (13,669)	58.9 (3596)
3512C HD SCAC	2880 (113.8)	1630 (64.2)	2185 (86.1)	6402 (14,115)	58.9 (3596)
Bore x Stroke – mm (in)	170 x 215 (6.7 x 8.5)				

Please see spec sheet for more information:

3512C HD LEHW0056, LEHW0090

For diesel engine rating definitions please see page 10.



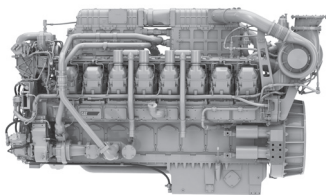
Well Service Ratings

Rating Tier	bkW	bhp	rpm	Emissions	Notes
E	1678	2250	1800	EPA T4f NRNG	ATAAC, 1.7% Torque Rise
E	1678	2250	1800	EPA T4f NRNG	SCAC, 1.7% Torque Rise
E	1865	2500	1800	EPA T4f NRNG	ATAAC, 7.0% Torque Rise
E	1865	2500	1800	EPA T4f NRNG	SCAC, 7.0% Torque Rise

Specifications

	L – mm (in)	W – mm (in)	H – mm (in)	Wt – kg (lbs)	Disp – L (in³)
3512E ATAAC	3099 (122)	2235 (88)	2718 (107)	9110 (20,100)	58.9 (3596)
3512E SCAC	3490 (137.4)	2235 (88)	2718 (107)	9750 (21,500)	58.9 (3596)
Bore x Stroke – mm (in)	170 x 215 (6.69 x 8.46)				

For diesel engine rating definitions please see page 10.



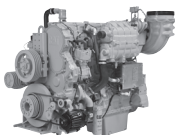
Well Service Ratings

Rating Tier	bkW	bhp	rpm	Emissions	Notes
E	2237	3000	1900	EPA T2 NR, China III NR	SCAC
E	2349	3150	1900	EPA T2 NR, China III NR	SCAC
E	2461	3300	1900	EPA T2 NR, China III NR	SCAC
E	2237	3000	1900	EPA T1 NR	SCAC
E	2349	3150	1900	EPA T1 NR	SCAC
E	2461	3300	1900	EPA T1 NR	SCAC

Specifications

	L – mm (in)	W – mm (in)	H – mm (in)	Wt – kg (lbs)	Disp – L (in³)
3516C HD SCAC	3450 (135.83)	1688 (66.5)	2040 (80.3)	8516 (18,775)	78 (4765)
Bore x Stroke – mm (in)	170 x 215 (6.69 x 8.46)				

For diesel engine rating definitions please see page 10.



Well Service Ratings

Rating Tier	bkW	bhp	rpm	Emissions	Notes
C7 ACERT					
B	153	205	2200	IMO II, EPA T2 M, EPA T3 NR, EU IIIA NR	Haz Loc, SCAC only, Watercooled
C	172	230	2200	IMO II, EPA T2 M, EPA T3 NR, EU IIIA NR	Haz Loc, SCAC only, Watercooled
C9 ACERT					
D	254	340	2200	IMO II, EPA T3 NR, EU IIIA NR	Haz Loc, SCAC & REMAC avail, Derate Option, Watercooled
C15 ACERT					
D	400	536	1800-2000	EPA T2 M, IMO II, EPA T3 M	Haz Loc, SCAC, Watercooled
D	400	536	1800-2100	EU IIIA NR Constant Speed, IMO II	Haz Loc, SCAC, Watercooled
D	403	540	1800-2000	EPA T2 M, IMO II, EPA T3 M	Haz Loc, SCAC & REMAC, Watercooled
C18 ACERT					
C	533	715	2100	IMO II, EPA T3 NR, EU IIIA NR	Haz Loc, SCAC only, Watercooled
D	599	803	2100	IMO II, EPA T3 NR, EU IIIA NR	Haz Loc, SCAC only, Watercooled
C32 ACERT					
A	597	800	2100	EPA T2 NR, EPA T2 M, IMO II	Haz Loc, SCAC only, Watercooled
A	641	860	2100	EPA T2 NR, EPA T2 M, IMO II	Haz Loc, SCAC only, Watercooled
B	686	920	2100	EPA T2 NR, EPA T2 M, IMO II	Haz Loc, SCAC only, Watercooled
D	826	1110	2100	EPA T2 NR, EPA T2 M, IMO II	Haz Loc, SCAC only, Watercooled

Specifications

	L – mm (in)	W – mm (in)	H – mm (in)	Wt – kg (lbs)	Disp – L (in³)
C7 ACERT	1053 (41.5)	758 (29.8)	1032 (40.6)	629 (1386)	7.2 (439)
C9 ACERT	1092 (43)	828 (32.6)	1024 (40.3)	716 (1578)	8.8 (537)
C15 ACERT	1377 (54)	927 (37)	1227 (48)	1245 (12,743)	15.2 (927.6)
C18 ACERT	1931 (76)	1204 (47.4)	1198 (47.2)	1814 (4000)	
C32 ACERT	1918 (75.5)	1473 (58)	1321 (52)	2286 (5040)	32 (1953)

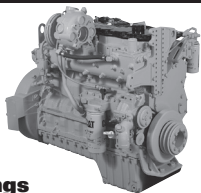
Bore x Stroke – mm (in)

C7 ACERT	110x127 (4.3x5)	C18 ACERT	145x183 (5.7x7.2)
C9 ACERT	112x149 (4.4x5.8)	C32 ACERT	145x162 (5.7x6.4)
C15 ACERT	137.2x171.5 (5.4x6.75)		

Please see spec sheet for more information:

C7 ACERT .. LEHW0044 C9 ACERT .. LEHW0014 C15 ACERT .. LEHW0113 C32 ACERT .. LEHW0051

For diesel engine rating definitions please see page 10.



Well Service Ratings

Rating Tier	bkW	bhp	rpm	Emissions	Notes
C7 ACERT					
B	153	205	2200	IMO II, EPA T2 M, EPA T3 NR, EU IIIA NR	Watercooled, SCAC & REMAC avail
C	172	230	2200	IMO II, EPA T2 M, EPA T3 NR, EU IIIA NR	Watercooled, SCAC & REMAC avail
D	205	275	2200	IMO II, EPA T2 M, EPA T3 NR, EU IIIA NR	Watercooled, SCAC & REMAC avail
C9 ACERT					
C	242	325	2200	IMO II, EPA T3 NR, EU IIIA NR	Watercooled, SCAC & REMAC avail
D	254	340	2200	IMO II, EPA T3 NR, EU IIIA NR	Watercooled, SCAC & REMAC avail
C15 ACERT					
D	400	536	1800-2000	EPA T2 M, IMO II, EPA T3 M	Haz Loc, SCAC, Watercooled
D	403	540	1800-2000	EPA T2 M, IMO II, EPA T3 M	Haz Loc, SCAC & REMAC, Watercooled
C32 ACERT					
A	597	800	2100	EPA T2 NR, EPA T2 M, IMO II	Watercooled, SCAC, SCAC + HEX & REMAC avail
A	641	860	2100	EPA T2 NR, EPA T2 M, IMO II	Watercooled, SCAC, SCAC + HEX & REMAC avail
B	686	920	2100	EPA T2 NR, EPA T2 M, IMO II	Watercooled, SCAC, SCAC + HEX & REMAC avail
C	746	1000	2100	EPA T2 NR, EPA T2 M, IMO II	Watercooled, SCAC, SCAC + HEX & REMAC avail
D	828	1110	2100	EPA T2 NR, EPA T2 M, IMO II	Watercooled, SCAC, SCAC + HEX & REMAC avail
E	913	1225	2100	EPA T2 NR, EPA T2 M, IMO II	Watercooled, SCAC, SCAC + HEX & REMAC avail

Specifications

	L – mm (in)	W – mm (in)	H – mm (in)	Wt – kg (lbs)	Disp – L (in ³)
C7 ACERT	1053 (41.5)	758 (29.8)	1032 (40.6)	629 (1386)	7.2 (439)
C9 ACERT	1092 (43)	828 (32.6)	1024 (40.3)	716 (1578)	8.8 (537)
C32 ACERT	1918 (75.5)	1473 (58)	1321 (52)	2286 (5040)	32 (1953)

Bore x Stroke – mm (in)

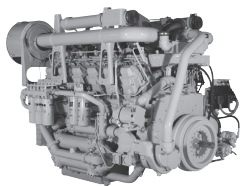
C7 ACERT	110 x 127 (4.3 x 5)
C9 ACERT	112 x 149 (4.4 x 5.8)
C32 ACERT	145 x 162 (5.7 x 6.4)

Please see spec sheet for more information:

C7 ACERT LEHW0045 C9 ACERT..... LEHW0046

C32 ACERT.... LEHW0050

For diesel engine rating definitions please see page 10.



Well Service Ratings

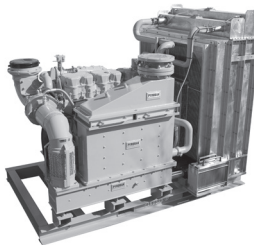
Rating Tier	bkW	bhp	rpm	Emissions	Notes
3508					
A	507	680	1200	NC	Watercooled
C	611	820	1300	NC	Watercooled
A	638	855	1800	NC	Watercooled
C	746	1000	1800	NC	Watercooled
C	846	1135	1900	NC	Watercooled
3512					
A	761	1020	1200	NC	Watercooled
C	858	1150	1300	NC	Watercooled
A	954	1280	1800	NC	Watercooled
C	1119	1500	1800	NC	Watercooled
C	1342	1800	1900	NC	Watercooled
3516					
A	1010	1355	1200	NC	Watercooled
C	1242	1665	1300	NC	Watercooled

Specifications

	L – mm (in)	W – mm (in)	H – mm (in)	Wt – kg (lbs)	Disp – L (in³)
3508	2136.14 (84.1)	1701.8 (67)	1719.58 (67.7)	4309 (9500)	34.5 (2105)
3512	2674.62 (105.3)	1701.8 (67)	1719.58 (67.7)	5203.75 (11,462)	51.8 (3158)
3516	3251 (128)	1701 (66.9)	2004 (78.9)	8660 (19,090)	69 (4210)

Bore x Stroke – mm (in) 170 x 190 (6.7 x 7.5)

For diesel engine rating definitions please see page 10.



Well Service

Model	bkW	bhp	rpm	Emissions
C4.4 NA	45/44	60/59	1500/1800	CCNR Stage 2, EPA T2 M
C4.4 TA	96/112	128.7/150.2	1500/1800	NC
C4.4 NA	52	69.7	2200	CCNR Stage 2, EPA T2 M
C4.4 TA	92.6	124.2	2200	NC
C7 ACERT	158	211	2200	IMO II, EPA T2 M, EPA T3 NR
C9 ACERT	227	304	2200	EPA and CARB T3 NR, EU IIIA NR, EPA T2 M, IMO II
C15 ACERT	376	504	1800-2000	IMO II, EPA T3 M, EU IIIA NR
3406C	365	490	2100	NC

Specifications

	L – mm (in)	W – mm (in)	H – mm (in)	Wt – kg (lbs)	Disp – L (in ³)
C4.4	1571 (61.9)	1253 (49.3)	1627 (64)	970 (2138)	4.4 (268.5)
C7 ACERT	2228 (87.7)	1750 (68.9)	1884 (74.2)	3390 (7475)	7.2 (442)
C9 ACERT	2167 (85.3)	1863 (73.3)	2383 (93.8)	3480 (7673)	8.82 (537.96)
C15 ACERT	2583 (101.69)	2042 (80.39)	2216 (87.24)	3800 (8378)	15.2 (928)
3406C	2468 (97.2)	1842 (72.5)	2646 (104.2)	3620 (7982.1)	14.6 (893)

For diesel engine rating definitions please see page 10.

Transmission Application Chart

Engine	Transmission	Max hp	Page
C9 ACERT	CX31-P600	600	33
	CX31-P600*	600	34
C11 ACERT	CX31-P600	600	33
	CX31-P600*	600	34
C13 ACERT	CX31-P600	600	33
	CX31-P600*	600	34
C15 ACERT	CX31-P600	600	33
	CX31-P600*	600	34
	CX35-P800	800	35
C18 ACERT	CX35-P800	800	35
C27 ACERT	TH48-E70	1200	36
C32 ACERT	TH48-E70	1500	36
3512B	CX48-P2300	2300	37
3512C	CX48-P2300	2300	37
	TH55-E70	3300	38
	TH55-E90	3300	39
3512E	CX48-P2300	2300	37
	TH55-E70	3300	38
	TH55-E90	3300	39
3516C	TH55-E70	3300	38
	TH55-E90	3300	39

*Dropbox 2WD or 4WD



Ratings

Gross Input Power	447 kW (600 hp)
Gross Input Torque	2746 N•m (2025 lb-ft)
Rated Input Speed	2100 rpm
Maximum Input Speed	2500 rpm

Output Connection Options

1710 output yoke, 1810 yoke, 1810 companion flange, ISO-8667 flange

Power Take Off

(Pump Auxiliary Drive)

PTO Mountings and Locations*

Standard Configuration:
10-bolt, 199 kW/267 hp at 8 o'clock and 1 o'clock**

Optional Integral Pump Drive
Configuration:

SAE J744 B-size (2- and 4-bolt) 149 kW/
200 hp at 1 o'clock and 11 o'clock
facing input**

SAE J744 C-size (2- and 4-bolt) 149 kW/
200 hp at 1 o'clock and 11 o'clock
facing output**

Cat 10-bolt 355 kW/476 hp at 5 o'clock
rear

Transmission Speed Ratios

Gear	Ratio
1F	4.40
2F	2.33
3F	1.53
4F	1.00
5F	0.72
6F	0.61
1R	3.97

Stall Torque Ratio @ Rated Speed

< 400 hp engine	2.669
> 400 hp engine	2.324

Dimensions

Height:	719 mm (28.3 in)
Width:	613 mm (24.1 in)
Length:	1098 mm (43.2 in)

Weight

Approximate Dry Weight	
STD Configuration	456 kg (1006 lbs)
Integral Pump Drive	496 kg (1094 lbs)

Retarder

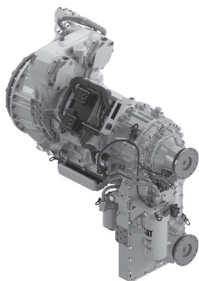
Available for standard and integral pump drive configurations

Spec Sheet

LEHW0008

*Viewed from rear

**Please see Application and Installation Guide (REHS3513) for details on combined PTO power rating



Ratings

Gross Input Power	447 kW (600 hp)
Gross Input Torque	2746 N•m (2025 lb-ft)
Rated Input Speed	2100 rpm
Maximum Input Speed	2500 rpm

Output Connection Options

1710 output yoke, 1810 yoke, 1810 companion flange, ISO-8667 flange

Power Take Off

(Pump Auxiliary Drive)

PTO Mountings and Locations*

SAE J744 B-size (2- and 4-bolt) 149 kW/ 200 hp at 1 o'clock and 11 o'clock facing input**

SAE J744 C-size (2- and 4-bolt) 149 kW/ 200 hp at 1 o'clock and 11 o'clock facing output**

Transmission Speed Ratios

Gear	Ratio
1F	4.40
2F	2.33
3F	1.53
4F	1.00
5F	0.72
6F	0.61
1R	3.97

Stall Torque Ratio @ Rated Speed

< 400 hp engine	2.669
> 400 hp engine	2.324

Dimensions

Height:	1393 mm (54.8 in)
Width:	755 mm (29.7 in)
Length:	1366 mm (53.7 in)

Weight

Approximate Dry Weight	
2WD model	909 kg (2005 lbs)
4WD model	943 kg (2080 lbs)

Integral Drop Box

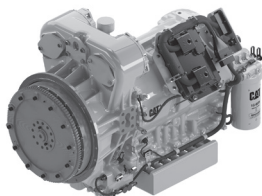
2WD or 4WD options available

Spec Sheet

LEHW0008

*Viewed from rear

**Please see Application and Installation Guide (REHS3513) for details on combined PTO power rating



Ratings

Gross Input Power	597 kW (800 hp)
Gross Input Torque	
1F-3F	3254 N•m (2400 lb-ft)
4F-8F	3661 N•m (2700 lb-ft)
Rated Input Speed	2100 rpm
Maximum Input Speed	2500 rpm

Output Connection Options

1810 yoke, 1810 companion flange,
ISO-8667 flange

Power Take Off

(Pump Auxiliary Drive)

PTO Mountings and Locations*

Standard Configuration:
10-bolt, 199 kW/267 hp at 8 o'clock and
1 o'clock**

Cat 8-bolt 355 kW/476 hp at 5 o'clock*

Optional Integral Pump Drive
Configuration:

SAE J744 B-size (2- and 4-bolt) 149 kW/
200 hp at 1 o'clock and 11 o'clock
facing input**

SAE J744 C-size (2- and 4-bolt) 149 kW/
200 hp at 1 o'clock and 11 o'clock
facing output**

Cat 8-bolt 355 kW/476 hp at 5 o'clock*

Transmission Speed Ratios

Gear	Ratio
1F	5.73
2F	3.57
3F	2.72
4F	1.95
5F	1.43
6F	1.00
7F	0.74
8F	0.63
1R	-4.46
Stall Torque Ratio	1.962

Dimensions

Height:	872 mm (34.4 in)
Width:	654 mm (25.8 in)
Length:	1265 mm (49.8 in)

Weight

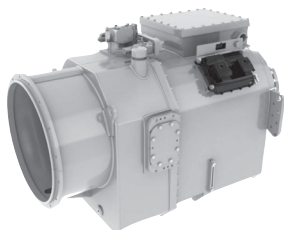
Approximate Dry Weight	
STD Configuration	651 kg (1435 lbs)
Integral Pump Drive	731 kg (1612 lbs)

Spec Sheet

LEHW0007

*Viewed from rear

**Please see Application and Installation Guide (REHS3513) for details on combined PTO power rating



Ratings

Gross Input Power	895 kW (1200 hp) 1118 kW (1500 hp)
Gross Input Torque	5995 N•m (4422 lb-ft)
Rated Input Speed	2100 rpm
Maximum Input Speed	2200 rpm

Output Connection (Yoke)

GWB 390.60/GWB 390.65

Power Take Off

(Pump Auxiliary Drive)

PTO Mountings and Locations*

SAE J704 (8-bolt) 14.9 kW/20 hp at
3 o'clock, 5 o'clock, and 9 o'clock

Transmission Speed Ratios

Gear	Ratio
1F	6.16
2F	4.52
3F	3.33
4F	2.47
5F	1.82
6F	1.36
7F	1.00
Stall Torque Ratio	2.20

Dimensions

Height:	1092 mm (43 in)
Width:	866 mm (34 in)
Length:	1681 mm (66 in)

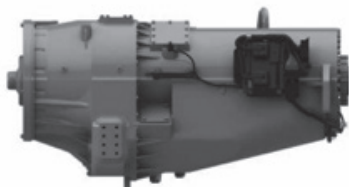
Weight

Approximate Dry Weight	
Transmission	1694 kg (3735 lbs)
Engine/Transmission Coupling	108 kg (238 lbs)

Spec Sheet

LEHW1002

*Viewed from rear



Ratings

Gross Input Power	1715 kW (2300 hp)
Gross Input Torque	9024 N•m (6656 lb-ft)
Rated Input Speed	1900 rpm
Maximum Input Speed	2150 rpm

Output Connection (Yoke)

GWB 390.60/GWB 390.65

Power Take Off

(Pump Auxiliary Drive)

PTO Mountings and Locations*

SAE J704 (8-bolt) 14.9 kW/20 hp at 12 o'clock

SAE J744 C-size (2- and 4-bolt) 112 kW/150 hp at 5 o'clock

Transmission Speed Ratios

Gear	Ratio
1F	3.34
2F	2.45
3F	2.20
4F	1.81
5F	1.62
6F	1.36
7F	1.19
8F	0.99
Stall Torque	2.20

Dimensions

Height:	1049 mm (41.3 in)
Width:	1128 mm (44.4 in)
Length:	1893.2 mm (74.5 in)

Weight

Approximate Dry Weight	
Transmission	1601 kg (3530 lbs)
Engine/Transmission	
Coupling	156 kg (343 lbs)

Spec Sheet

LEHW0148

*Viewed from rear



Ratings

Gross Input Power	2461 kW (3300 hp)
Gross Input Torque	12 667 N•m (9350 lb-ft)
Rated Input Speed	1900 rpm
Maximum Input Speed	1970 rpm

Output Connection (Yoke)

GWB 390.65 – 2500 hp
GWB 390.70 – 3000+ hp

Power Take Off

(Pump Auxiliary Drive)

PTO Mountings and Locations*

SAE J704 (8-bolt) 14.9 kW/20 hp at
3 o'clock

SAE J744 C-size (2- and 4-bolt) 112 kW/
150 hp at 11 o'clock

Transmission Speed Ratios

Gear	Ratio
1F	6.25
2F	4.59
3F	3.38
4F	2.48
5F	1.83
6F	1.36
7F	1.00

Stall Torque Ratio 2.23

Dimensions

Height:	1288 mm (51 in)
Width:	1246 mm (49 in)
Length:	2132 mm (84 in)

Weight

Approximate Dry Weight	
Transmission	2871 kg (6330 lbs)
Engine/Transmission Coupling	
2500 hp	136 kg (300 lbs)
3000+ hp	181 kg (400 lbs)

Spec Sheet

LEHW1006

*Viewed from rear



Ratings

Gross Input Power	2461 kW (3300 hp)
Gross Input Torque	12 677 N•m (9350 lb-ft)
Rated Input Speed	1900 rpm
Maximum Input Speed	1970 rpm

Output Connection (Yoke)

GWB 390.65 – 2500 hp
GWB 390.70 – 3000+ hp

Power Take Off

(Pump Auxiliary Drive)

PTO Mountings and Locations*

SAE J704 (8-bolt) 14.9 kW/20 hp at 3 o'clock

SAE J744 C-size (2- and 4-bolt) 112 kW/150 hp at 11 o'clock

Transmission Speed Ratios

Gear	Ratio
1F	4.67
2F	3.43
3F	3.03
4F	2.53
5F	2.22
6F	1.85
7F	1.64
8F	1.36
9F	1.00
Stall Torque Ratio	2.23

Dimensions

Height:	1288 mm (51 in)
Width:	1246 mm (49 in)
Length:	2137 mm (84 in)

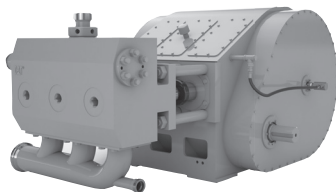
Weight

Approximate Dry Weight	
Transmission	2871 kg (6330 lbs)
Engine/Transmission Coupling	
2500 hp	136 kg (300 lbs)
3000+ hp	181 kg (400 lbs)

Spec Sheet

LEHW1006

*Viewed from rear



Specifications

Max. Input	2250 bhp (1678 bkW)
Max. rpm	330
Number of Plungers	3
Stroke Length	8 in (203.2 mm)
Plunger Load	225,000 lb (102 048 kg)
Gear Ratio	6.353:1

Dimensions and Weight

Height:	44.25 in (1124 mm)
Width:	59.75 in (1518 mm)
Length:	89.75 in (2280 mm)
Weight:	13,000 lb (5896.7 kg)

Spec Sheet

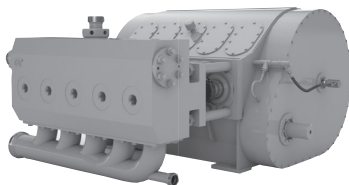
LEPW0059

Standard geometry, extreme duty, and stainless steel fluid ends are available.

Plunger Diameter		Displacement per Revolution		Displacement at Pump rpm Well Stimulation and Intermittent Application									
				75/476		115/731		200/1271		300/1906		330/2096	
in	mm	Gal/Rev.	L/Rev.	gpm	psi	gpm	psi	gpm	psi	gpm	psi	gpm	psi
4.5	114.3	1.65	6.25	124	14 147	190	14 147	330	10 502	496	7002	545	6365
5	127.0	2.04	7.72	153	11 459	235	11 459	408	8507	612	5671	673	5156
Input Power (bhp)				1137		1743		2250		2250		2250	

Based on 90% ME and 100% VE – Intermittent Service Only.

Pumps with pressures in excess of 15 000 psi require special gauge and discharge flanges.



Specifications

Max. Input	2500 bhp (1864 bkW)
Max. rpm	330
Number of Plungers	5
Stroke Length	8 in (203.2 mm)
Plunger Load	192,454 lb (87 296 kg)
Gear Ratio	6.353:1

Dimensions and Weight

Height:	44 in (1118 mm)
Width:	74 in (1880 mm)
Length:	86 in (2183 mm)
Weight:	16,000 lb (7257 kg)

Spec Sheet

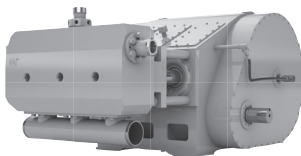
LEPW0060

Standard geometry, extreme duty, and stainless steel fluid ends are available.

Plunger Diameter		Displacement per Revolution		Displacement at Pump rpm Well Stimulation and Intermittent Application									
				111/705		150/953		200/1271		250/1588		330/2100	
in	mm	Gal/Rev.	L/Rev.	gpm	psi	gpm	psi	gpm	psi	gpm	psi	gpm	psi
4	101.6	2.17	8.21	241	15 315	326	11 830	434	8886	543	7102	716	5386
4.5	114.3	2.75	10.40	305	12 100	413	9338	550	7012	688	5605	908	4247
5	127.0	3.40	12.87	377	9800	510	7562	680	5671	850	4537	1122	3437
Input Power (bhp)				2400		2500		2500		2500		2500	

Based on 90% ME and 100% VE – Intermittent Service Only.

Pumps with pressures in excess of 15 000 psi require special gauge and discharge flanges.



Specifications

Max. Input	2700 bhp (2014 bkW)
Max. rpm	275
Number of Plungers	3
Stroke Length	10 in (254 mm)
Plunger Load	275,000 lb (124 738 kg)
Gear Ratio	5.55:1

Dimensions and Weight

Height:	46.8 in (1189 mm)
Width:	94.8 in (2408 mm)
Length:	70.1 in (1781 mm)
Weight:	16,000 lb (7250 kg)

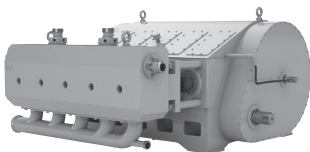
Spec Sheet

LEPW0081

Plunger Diameter		Displacement per Revolution		Displacement at Pump rpm Well Stimulation and Intermittent Application									
				70		116		150		200		275	
in	mm	Gal/Rev.	L/Rev.	gpm	psi	gpm	psi	gpm	psi	gpm	psi	gpm	psi
4	101.6	1.63	6.18	114	21 885	189	21 885	245	18 904	326	14 178	449	10 312
4.5	114.3	2.07	7.82	145	17 290	240	17 290	310	14 937	413	11 203	568	8147
5	127.0	2.55	9.65	178	14 005	296	14 005	382	12 099	510	9074	701	6599
Input Power (bhp)				1600		2400		2700		2700		2700	

Based on 90% ME and 100% VE – Intermittent Service Only.

Pumps with pressures in excess of 15 000 psi require special gauge and discharge flanges.



Specifications

Max. Input	3000 bhp (2237 bkW)
Max. rpm	275
Number of Plungers	5
Stroke Length	10 in (254 mm)
Plunger Load	250,000 lb (113 398 kg)
Gear Ratio	5.55:1

Dimensions and Weight

Height:	52.8 in (1342 mm)
Width:	95.6 in (2428 mm)
Length:	97.1 in (2466 mm)
Weight:	24,000 lb (10 886 kg)

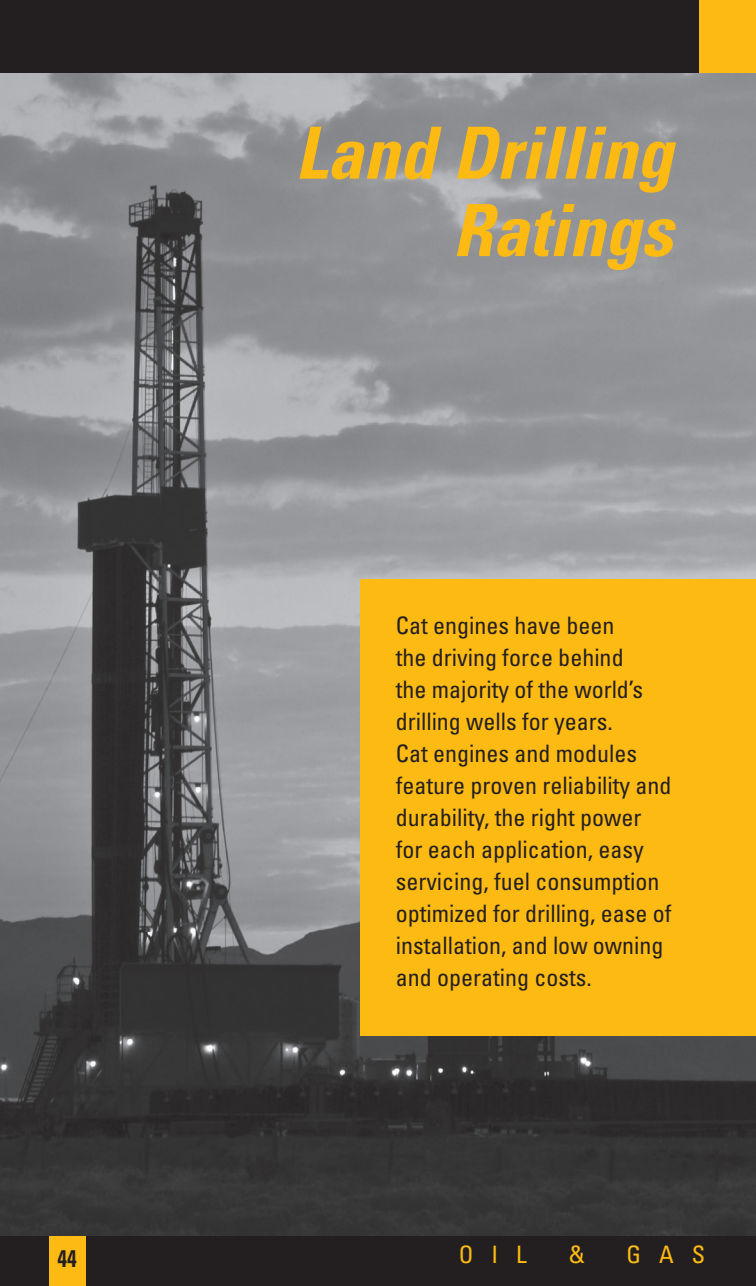
Spec Sheet

LEPW0085

Plunger Diameter		Displacement per Revolution		Displacement at Pump rpm Well Stimulation and Intermittent Application									
				75		115		150		200		275	
in	mm	Gal/Rev.	L/Rev.	gpm	psi	gpm	psi	gpm	psi	gpm	psi	gpm	psi
4	101.6	2.72	10.3	204	19 900	312	16 450	408	12 615	543	9460	747	6875
4.5	114.3	3.44	13.0	258	15 725	396	12 985	516	9960	688	7450	946	5425
5	127.0	4.25	16.1	319	12 730	489	10 520	637	8065	850	6050	1168	4400
5.5	139.7	5.14	19.5	386	10 525	591	8695	771	6665	1028	5000	1414	3635
Input Power (bhp)				2368		3000		3000		3000		3000	

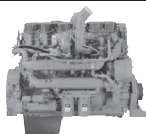
Based on 90% ME and 100% VE – Intermittent Service Only.

Pumps with pressures in excess of 15 000 psi require special gauge and discharge flanges.



Land Drilling Ratings

Cat engines have been the driving force behind the majority of the world's drilling wells for years. Cat engines and modules feature proven reliability and durability, the right power for each application, easy servicing, fuel consumption optimized for drilling, ease of installation, and low owning and operating costs.



Land Mechanical Drilling Engine Ratings

Rating Tier	bkW	bhp	rpm	Emissions
A	328	440	1800-2100	EPA T3 NR, EU IIIA NR, China II NR
A/B	354	475	1800-2100	EPA T4f NRNG
C	403	540	1800-2100	EPA T4f NRNG
D	433	580	1800-2100	EPA T4f NRNG
B*	354	475	1800-2100	EPA T3 NR, EPA ESE, UN R96 IIIA, China III NR, IMO II
C*	403	540	1800-2100	EPA T3 NR, EU IIIA NR, UN R96 IIIA, China III NR
C	403	540	1800-2100	EPA T3 NR, EU IIIA NR, UN R96 IIIA, China III NR, IMO II
C	403	540	1800-2100	China Phase IV
D	400	536	1800-2100	IMO II, EPA T3M, Haz Loc
D	403	540	1800-2100	IMO II, EPA T3M, Haz Loc
D	433	580	1800-2100	EPA T3 NR, UN R96 IIIA, IMO II
E	444	595	1800-2100	EPA T3 NR, UN R96 IIIA, IMO II
A	354	475	1800-2100	EPA T4i NRNG, EU IIIA NR
B	354	475	1800-2100	EPA T4i NRNG, EU IIIA NR
C	403	540	1800-2100	EPA T4i NRNG, EU IIIA NR
D	433	580	1800-2100	EPA T4i NRNG, EU IIIA NR

*Available with Cat compression brake

Land Drilling Module Ratings

Duty	bkW	ekW	kVA	bhp	Emissions
50 Hz/1500 rpm					
Prime	331	292	365	444	NC
Prime	410	365	456	550	NC
60 Hz/1800 rpm					
Prime	373	320	400	500	EPA ESE
Prime	420	365	456	563	EPA ESE
Prime	467	410	513	626	EPA ESE
Prime	517	455	569	693	EPA ESE, EPA T2 NR

Specifications

	L – mm (in)	W – mm (in)	H – mm (in)	Wt – kg (lbs)	Disp – L (in ³)
C15 ACERT	1377 (54)	927 (37)	1227 (48)	1245 (2743)	15 (928)
C15 ACERT T4	1530 (60.2)	961 (37.8)	1282 (51)	1580 (3482)	15 (928)
C15 ACERT Module	3518 (138.5)	1524 (60)	2110 (83.1)	4760 (10,500)	15 (928)

Bore x Stroke – mm (in) 137 x 171 (5.4 x 6.75)

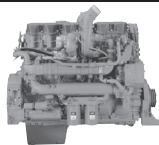
Please see spec sheet for more information:

C15 ACERT (T3)..... LEHW0061

C15 ACERT (T4) LEHW0097

C15 ACERT Module LEHW0010

For diesel engine rating definitions please see page 10.



Land Mechanical Drilling Engine Ratings

Rating Tier	bkW	bhp	rpm	Emissions
A*	429	575	1800- 2100	EPA T3 NR, EPA ESE, IMO II, NC
B*	447	600	1800- 2100	EPA T3 NR, EPA ESE, IMO II, NC
C*	470	630	1800- 2100	EPA T3 NR, EPA ESE, IMO II, NC
C	470	630	1900	China On-hwy IV
C	522	700	1800- 2100	EPA T3 NR, EPA ESE, IMO II, NC
D	570	765	1800- 2100	EPA T3 NR, EPA ESE, IMO II, NC
E	597	800	1800- 2100	EPA T3 NR, EPA ESE, IMO II, NC
A	447	600	1800-1900	EPA T4i NRNG, EU IIIB NR, UN R96 IIIB
B	447	600	1800-1900	EPA T4i NRNG, EU IIIB NR, UN R96 IIIB
C	470	630	1800-1900	EPA T4i NRNG, EU IIIB NR, UN R96 IIIB
C	522	700	1800-1900	EPA T4i NRNG, EU IIIB NR, UN R96 IIIB
C	563	755	1800-1900	EPA T4i NRNG, EU IIIB NR, UN R96 IIIB
D	597	800	1800-1900	EPA T4i NRNG, EU IIIB NR, UN R96 IIIB
A	429	575	1800 -2000	EPA T4f NRNG, EU IV NR
B	447	600	1800 -2000	EPA T4f NRNG, EU IV NR
C	470	630	1800 -2000	EPA T4f NRNG, EU IV NR
C	563	755	1800	EPA T4f NRNG
C	597	800	1800	EPA T4f NRNG

*Available with Cat compression brake

Land Drilling Module Ratings

Duty	bkW	ekW	kVA	bhp	Emissions
50 Hz/1500 rpm					
Prime	483	436	545	657	NC
60 Hz/1800 rpm					
Prime	576	500	625	772	EPA ESE
Prime	624	545	681	837	EPA ESE, EPA T2 NR ¹

Specifications

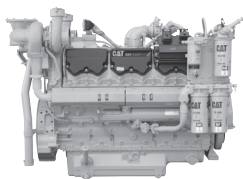
	L – mm (in)	W – mm (in)	H – mm (in)	Wt – kg (lbs)	Disp – L (in ³)
C18 ACERT	1389 (54.7)	919 (36.2)	1227 (49.5)	1273 (2807)	18 (1105)
C18 ACERT T4	1530 (60.2)	961 (37.8)	1282 (51)	1580 (3482)	18 (1105)
C18 ACERT Module	3632 (143)	1524 (60)	2115 (83.3)	5033 (11,095)	18 (1105)

Bore x Stroke – mm (in) 145 x 183 (5.7 x 7.2)

Please see spec sheet for more information:

C18 ACERT (T3)..... LEHW0053 C18 ACERT (T4f)..... LEHW0109
 C18 ACERT (T4i) LEHW0098 C18 ACERT Module..... LEHW7450

For diesel engine rating definitions please see page 10.



Land Mechanical Drilling Engine Ratings

Rating	Tier	bkW	bhp	rpm	Emissions
A		597	800	1800-2100	EPA T2 NR, China III NR, IMO II, EPA ESE
B		653	875	1800-2100	EPA T2 NR, China III NR, IMO II, EPA ESE
C		708	950	1800-2100	EPA T2 NR, China III NR, IMO II, EPA ESE
D		783	1050	1800-2100	EPA T2 NR, China III NR, IMO II, EPA ESE
E		858	1150	1800-2100	EPA T2 NR, China III NR, IMO II, EPA ESE
A		597	800	1800-2100	EPA T4i NRNG
B		653	875	1800-2100	EPA T4i NRNG
C		708	950	1800-2100	EPA T4i NRNG
D		783	1050	1800-2100	EPA T4i NRNG
A		597	800	1800	EPA T4f NRNG
B		652	875	1800	EPA T4f NRNG
C		708	950	1800	EPA T4f NRNG
D		783	1050	1800	EPA T4f NRNG

Land Electric Drilling Module Ratings

Duty	bkW	ekW	kVA	bhp	Emissions
60 Hz/1800 rpm					
Prime	824	725	1035	1105	NC
Prime	824	725	907	1105	NC

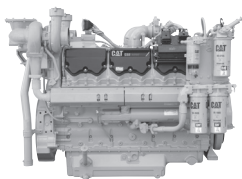
Specifications

	L – mm (in)	W – mm (in)	H – mm (in)	Wt – kg (lbs)	Disp – L (in³)
C27 ACERT	1918 (75.5)	1463 (57.6)	1321 (52)	2895 (6382)	27 (1648)
C27 ACERT T4	2160 (85)	1270 (50)	1650 (65)	2956 (6516)	27 (1648)
C27 ACERT Module	5228 (205.8)	1950 (76.8)	2180 (85.8)	9072 (20,000)	27 (1648)
Bore x Stroke – mm (in) 137.7 x 152.4 (5.42 x 6)					

Please see spec sheet for more information:

C27 ACERT (T2)..... LEHW0052 C27 ACERT Module..... LEHW0115
 C27 ACERT (T4i) LEHW0101

For diesel engine rating definitions please see page 10.



Land Mechanical Drilling Engine Ratings

Rating	Tier	bkW	bhp	rpm	Emissions
A		597	800	1800-2100	EPA T2 NR, China III NR, IMO II
B		708	950	1800-2100	EPA T2 NR, China III NR, IMO II, EPA ESE
C		839	1125	1800-2100	EPA T2 NR, China III NR, IMO II, EPA ESE
D		895	1200	1800-2100	EPA T2 NR, China III NR, IMO II, EPA ESE
E		1007	1350	1800-2100	EPA T2 NR, China III NR, IMO II, EPA ESE
E		1119	1500	1800-2100	EPA T2 NR, IMO II
B		708	950	1800-2100	EPA T4i NRNG
C		839	1125	1800-2100	EPA T4i NRNG
D		895	1200	1800-2100	EPA T4i NRNG
B		708	950	1800	EPA T4f NRNG
C		839	1125	1800	EPA T4f NRNG
D		895	1200	1800	EPA T4f NRNG

Land Electric Drilling Module Ratings

Duty	bkW	ekW	kVA	bhp	Emissions
50 Hz/1500 rpm					
Prime	770	700	1000	1032	NC
Prime	882	800	1000	1182	NC
60 Hz/1800 rpm					
Prime	1003	910	1300	1182	EPA T2 NR ¹
Prime	1000	910	1137	1340	EPA T2 NR ¹

Specifications

	L – mm (in)	W – mm (in)	H – mm (in)	Wt – kg (lbs)	Disp – L (in ³)
C32 ACERT	1918 (75.5)	1473 (58)	1321 (52)	2895 (6382)	32 (1953)
C32 ACERT T4	1905 (75)	1600 (63)	1549 (61)	3107 (6850)	32 (1953)
C32 ACERT Module	5228 (206)	1905 (75)	2180 (86)	9299 (20,500)	32 (1953)

Bore x Stroke – mm (in) 145 x 162 (5.7 x 6.4)

Please see spec sheet for more information:

C32 ACERT (T2)..... LEHW0049

C32 ACERT (T4i) LEHW0100

C32 ACERT Module LEHW0110

For diesel engine rating definitions please see page 10.

Land Mechanical Drilling Engine Ratings

Model	Duty	bkW	bhp	rpm	Emissions
3508	A	507	680	1200	NC
3508	Drill-M	567	760	1200	NC
3508	C	611	820	1300	NC
3512	A	761	1020	1200	NC
3512	Drill-M	761	1020	1200	NC
3512	C	858	1150	1300	NC
3512	Drill-M	932	1250	1200	NC
3512	C	1119	1500	1800	NC
3516	Drill-M	1230	1649	1200	NC

Land Electric-Drive Drilling Engine Ratings

Model	Duty	bkW	bhp	rpm	Emissions
3512	Prime	830	1113	1000	NC
3512	Prime	985	1321	1200	NC
3512	Prime	1090	1462	1500	NC
3512	Prime	1100	1476	1500	NC
3512	Prime	1305	1750	1500	NC

Land Electric-Drive Drilling Module Ratings

Model	Duty	bkW	ekW	kVA	bhp	Emissions
50 Hz/1000 rpm						
3512	Drill-EI	830	790	1130	1113	NC
3512	Drill-EI	890	855	1220	1194	NC
60 Hz/1200 rpm						
3508	Drill-EI	641	610	880	860	NC
3512	Drill-EI	708	635	950	950	NC
3512	Drill-EI	985	895	1321	1321	NC
3512	Drill-EI	1070	975	1435	1435	NC
50 Hz/1500 rpm						
3512	Drill-EI	1090	990	1237	1462	NC
3512	Drill-EI	1300	1200	1500	1751	NC

Specifications

	L – mm (in)	W – mm (in)	H – mm (in)	Wt – kg (lbs)	Disp – L (in ³)
3508 Engine	2136 (84.1)	1702 (67.0)	1720 (67.7)	4309 (9500)	35 (2105)
3508 Module	7874 (310)	2385 (93.9)	2779 (109.4)	14 443 (31,847)	35 (2105)
3512 Engine	2675 (105.3)	1702 (67.0)	1720 (67.7)	5203 (11,471)	52 (3158)
3512 Module	7874 (310)	2385 (93.9)	2936 (115.6)	15 714 (34,643)	52 (3158)
3516 Engine	3251 (128)	1701 (67.0)	2004 (78.9)	8659 (19,090)	69 (4210)

Bore x Stroke – mm (in) 170 x 190 (6.7 x 7.5)

Please see spec sheet for more information:

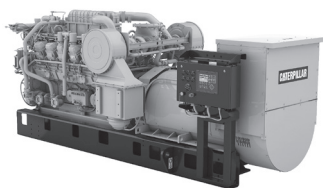
3508 Engine LEHW0058

3508 Module LEHW0069

3512 Engine LEHW0060

3512 Module LEHW0066

For diesel engine rating definitions please see page 10.



Land Electric-Drive Drilling Engine Ratings

Model	Duty	bkW	bhp	rpm	Emissions
3508B	Drill-EI	682	915	1200	NC
3512B	Drill-EI	1101	1476	1200	NC

Land Electric-Drive Drilling Module Ratings

Model	Duty	bkW	ekW	kVA	bhp	Emissions
60 Hz/1200 rpm						
3512B	Drill-EI	1101	995	1750	1476	NC
3512B with DGB	Drill-EI	1101	995	1750	1476	NC
50 Hz/1500 rpm						
3512B	Drill-EI	1310	1200	1900	1757	NC
3512B with DGB	Drill-EI	1310	1200	1900	1757	NC

Specifications

	L – mm (in)	W – mm (in)	H – mm (in)	Wt – kg (lbs)	Disp – L (in ³)
3508B Engine	2136 (84.1)	1702 (67)	2024 (79.7)	4309 (9500)	35 (2105)
3508B Module	4986 (196.3)	2319 (91.3)	2596 (102.2)	15 352 (33,846)	35 (2105)
3512B Engine	2675 (105.3)	1702 (67)	1720 (67.7)	5203 (11,471)	52 (3158)
3512B Module	6051 (238.2)	2318 (91.2)	2659 (104.7)	14 000 (30,864)	52 (3158)
3516B DGB Module	5841 (230.0)	2318 (91.2)	2662 (104.8)	13 545 (29,861)	52 (3158)
3516B Module	7874 (310.0)	2385 (93.9)	2520 (99.2)	18 810 (41,469)	69 (4210)

Bore x Stroke – mm (in) 170 x 190 (6.7 x 7.5)

Please see spec sheet for more information:

3508B Engine LEHW0057

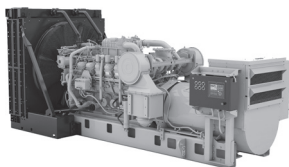
3512B DGB Module LEHW0200

3508B Module LEHW0070

3516B Module LEHW0065

3512B Module LEHW0067, LEHW0170

For diesel engine rating definitions please see page 10.



Land Mechanical Drilling Engine Ratings

Model	Duty	bkW	bhp	rpm	Emissions
3508C	Drill-M	671	900	1200	China III NR, EPA T2 NR
3512C HD	Drill-M	932	1250	1200	China III NR, EPA T2 NR
3512C HD	Drill-M	1100	1475	1200	China III NR, EPA T2 NR

Land Electric-Drive Drilling Engine Ratings

Model	Duty	bkW	bhp	rpm	Emissions
3508C	Drill-EI	682	915	1200	China III NR, EPA T2 NR
3512C	Drill-EI	1101	1475	1200	EPA T2 NR
3512C with DGB	Drill-EI	1101	1475	1200	EPA T2 NR
3512C	Drill-EI	1305	1750	1200	EPA T2 NR

Land Electric-Drive Drilling Module Ratings

Model	Duty	bkW	ekW	kVA	bhp	Emissions
50 Hz/1500 rpm						
3512C HD	Drill-EI	1310	1190	1900	1757	China III NR
60 Hz/1200 rpm						
3512C	Drill-EI	1101	995	1750	1476	EPA T2 NR, China III NR
3512C with DGB Retrofit Kit	Drill-EI	1101	995	1750	1476	EPA T2 NR, China III NR
3512C	Drill-EI	1305	1190	1842	1750	EPA T2 NR

Specifications

	L – mm (in)	W – mm (in)	H – mm (in)	Wt – kg (lbs)	Disp – L (in ³)
3508C Engine	2136 (84.1)	1702 (67.0)	2024 (79.7)	4582 (10,101)	35 (2105)
3512C Module	6051 (238.2)	2318 (91.2)	2659 (104.7)	14 453 (31,864)	52 (3158)
3512C HD					
Engine	2682 (105.6)	1790 (70.5)	2019 (79.5)	5423 (11,945)	59 (3574)
Module	6035 (237.6)	2320 (91.4)	2636 (103.8)	14 720 (32,452)	59 (3574)

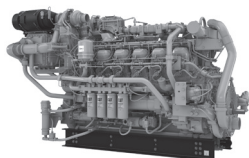
Bore x Stroke – mm (in) 170 x 190 (6.7 x 7.5)

Bore x Stroke HD – mm (in) 170 x 215 (6.7 x 8.5)

Please see spec sheet for more information:

3508C Engine	LEHW0059, LEHW0071	3512C Module.....	LEHW0068
3512C HD Engine	LEHW0048	3512C (DGB) Module.....	LEHW0138
3512C HD China III NR.....	LEHW0241	3512C HD Module	LEHW0113

For diesel engine rating definitions please see page 10.



Land Electric-Drive Drilling Engine Ratings

Model	Duty	bkW	bhp	rpm	Emissions
3512E	Drill-EI	1102	1477	1200	EPA T4f

Specifications

	L – mm (in)	W – mm (in)	H – mm (in)	Wt – kg (lbs)	Disp – L (in ³)
3512E Engine	3327 (131)	1829 (72)	1981 (78)	7711 (17,000)	59 (3600)
Bore x Stroke – mm (in)	170 x 216 (6.7 x 8.5)				

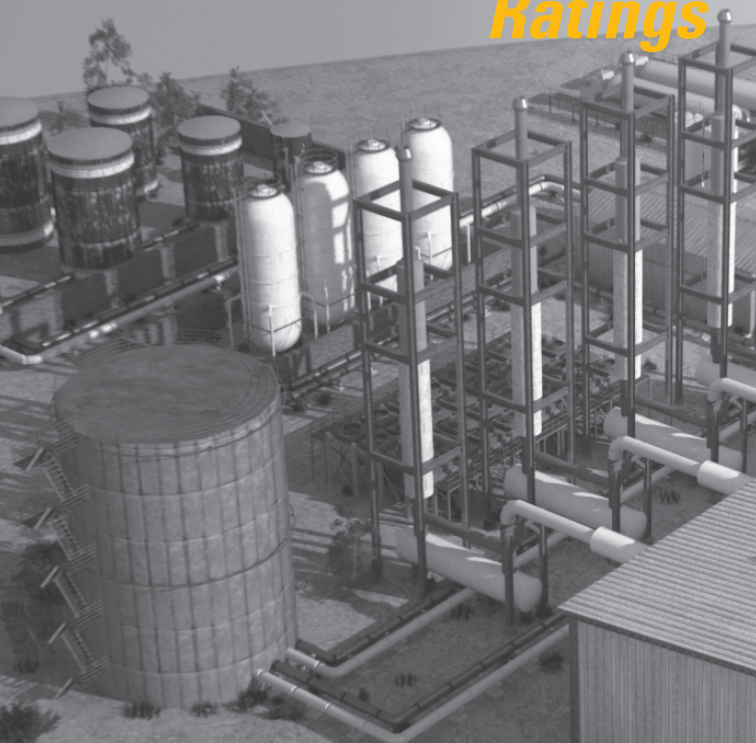
Please see spec sheet for more information:
 3500E Engine.....LEHW0282

For diesel engine rating definitions please see page 10.

Drilling Transmission Application Chart

Engine	Transmission	Max hp	Page
C15 ACERT	CX31-P600	600	33
	CX35-P800	800	35
C18 ACERT	CX35-P800	800	35
C27 ACERT	TH48-E70	1200	36
C32 ACERT	TH48-E70	1500	36

Land Production Ratings



The broad line of Cat engines and generator sets is the preferred choice in a variety of production applications worldwide. Known for reliability and durability, Cat engines are used in the most demanding applications in the oilfield. Cat engines have high fuel efficiency, low life cycle costs, simple installation and start-up, and fuel flexibility including CRU, gas, and dual fuel.

50 Hz Oilfield Diesel Generator Set Ratings – 365-1000 kVA

Model	Duty	bkW	ekW	kVA	bhp	Emissions
1500 rpm						
C15 ACERT	Prime	331	292	365	444	EU II NRNC, China II NRNC, NC
C15 ACERT	Prime	410	364	455	549	EU II NRNC, China II NRNC, NC
C18 ACERT	Prime	483	436	545	647	EU II NRNC, China II NRNC, NC
C32 ACERT	Prime	882	800	1000	1182	NC

50 Hz Generator Set Ratings – 365-7150 kVA

kVA			ekW			Generator Set Model	Emissions/ Configuration
Standby	Prime	Cont.	Standby	Prime	Cont.		
1500 rpm							
400	365		320	292		C13	China III NR
450	400		360	320		C13	China III NR
400	350		320	280		C13	NC
450	400		360	320		C13	NC
	455			364		C15	China III NR
	500			400		C15	China III NR
500	455		400	364		C15	NC
550	500		364	400		C15	NC
600	500		480	400		C18	China III NR
605	550		484	440		C18	NC
660	600		528	480		C18	NC
700	635		560	508		C18	NC
800	725		640	580		3412C	Low BSFC
900	810		720	648		3412C	Low BSFC
1250	1100		1000	880		C32	Low BSFC, Low Emissions
1100	1000	910	880	800	728	C32	Low BSFC, Low Emissions
1250	1150	1000	1000	920	800	3512	Low BSFC
1400	1275	1206	1120	1020	965	3512	Low BSFC
1500	1360		1200	1088		3512B	Low BSFC, Low Emissions
1600	1500	1320	1280	1200	1056	3512B	Low BSFC, Low Emissions
1750	1600		1400	1280		3512B HD	Low BSFC, Low Emissions
1875	1700	1500	1500	1360	1200	3512B HD	Low BSFC, Low Emissions
2000	1825	1600	1600	1460	1280	3516	Low BSFC
2250	2000	1750	1800	1600	1400	3516B	Low BSFC, Low Emissions

Ratings continued on page 56

Ratings continued from page 55

kVA			ekW			Generator Set Model	Emissions/ Configuration
Standby	Prime	Cont.	Standby	Prime	Cont.		
1500 rpm							
2500	2275	2000	2000	1820	1600	3512B HD	Low BSFC, Low Emissions
2750	2500		2200	2000		3512C	Low BSFC
2750	2500		2200	2000		3516C HD	Low BSFC,
3000	2725	2500	2400	2180	2000	C175-16	Low BSFC
3000			2400			C175-16	Low Emissions
3100	2825	2600	2480	2260	2080	C175-16	Low BSFC
3100			2480			C175-16	Low Emissions
3900	3500	3150	3120	2800	2520	C175-20	Low BSFC
3900			3120			C175-20	Low Emissions
4000	3600	3250	3200	2880	2600	C175-20	Low BSFC
4000			3200			C175-20	Low Emissions
1000 rpm							
2688	2425	2200	2150	1940	1760	3606	NC
3575	3250	2938	2860	2600	2350	3608	NC
5375	4850	4400	4300	3880	3520	3612	NC
7150	6500	5875	5720	5200	4700	3616	NC

60 Hz Oilfield Diesel Generator Set Ratings – 373-1000 ekW

Model	Duty	bkW	ekW	kVA	Emissions
1800 rpm					
C15 ACERT	Prime	366	320	400	EPA ESE
C15 ACERT	Prime	409	365	456	EPA ESE
C15 ACERT	Prime	481	410	513	EPA ESE
C15 ACERT	Prime	517	455	570	EPA T2
C15 ACERT	Prime	523	455	569	EPA ESE
C18 ACERT	Prime	489	436	545	NC
C18 ACERT	Prime	508	545	681	EPA T2
C18 ACERT	Prime	576	500	625	EPA T2
C18 ACERT	Prime	624	545	681	EPA T2
C27 ACERT	Prime	824	725	1035	EPA T4i
C27 ACERT	Prime	824	725	1035	NC
C32 ACERT	Prime	1008	910	1300	EPA T2

60 Hz Generator Set Ratings – 180-16296 ekW

kVA			ekW			Generator Set Model	Emissions/ Configuration
Standby	Prime	Cont.	Standby	Prime	Cont.		
1800 rpm							
250	225	—	200	180	—	C9 ACERT	EPA ESE
313	281	—	250	225	—	C9 ACERT	EPA ESE
375	344	—	300	275	—	C9 ACERT	EPA ESE
438	400	—	350	320	—	C15 ACERT	EPA ESE
438	400	—	350	320	—	C13 ACERT	Low BSFC
500	438	—	400	350	—	C13 ACERT	Low BSFC
500	456	—	400	365	—	C15 ACERT	EPA ESE
563	513	—	450	410	—	C15 ACERT	EPA ESE, NC
625	569	—	500	455	—	C15 ACERT	EPA ESE, NC
625	569	—	500	455	—	C18 ACERT	EPA T4f
688	—	—	550	—	—	C15 ACERT	EPA ESE, Low BSFC
688	625	—	550	500	—	C18 ACERT	EPA ESE
750	681	—	600	545	—	C18 ACERT	EPA ESE
813	739	—	650	591	—	3412C	NC
875	794	—	700	635	—	3412C	NC
938	850	—	750	680	—	3412C	NC
938	850	—	750	680	—	C27 ACERT	EPA ESE, Low BSFC
1000	906	—	800	725	—	3412C	NC

Ratings continued on page 58

Ratings continued from page 57

kVA			ekW			Generator Set Model	Emissions/ Configuration
Standby	Prime	Cont.	Standby	Prime	Cont.		
1800 rpm (continued)							
1000	906	—	800	725	—	C27 ACERT	NRG, EPA ESE, Low BSFC
1250	1138	1038	1000	910	830	C32 ACERT	EPA, Low BSFC
1375	1250	1113	1100	1000	880	3512	Low BSFC
1563	1419	1263	1250	1135	1010	3512	Low BSFC
1750	1594	1538	1400	1275	1230	3512B	Low BSFC, Low Emissions
1875	1700	1538	1500	1360	1230	3512B	Low BSFC, Low Emissions
1875	1700	1538	1500	1360	1230	3512C	EPA ESE
2188	2000	1813	1750	1600	1450	3516	Low BSFC
2500	2281	2050	2000	1825	1640	3516B	Low BSFC, Low Emissions
2500	2281	2063	2000	1825	1650	3516C	EPA ESE
2813	—	—	2250	—	—	3516B	Low BSFC
3125	2813	2563	2500	2250	2050	3516C HD	EPA ESE
3750	3406	3125	3000	2725	2500	C175-16	Low BSFC, EPA ESE
3875	3531	3250	3100	2825	2600	C175-16	Low BSFC, EPA ESE
5000	4500	1063	4000	3600	3250	C175-20	Low BSFC, EPA ESE
900 rpm							
2500	2275	2063	2000	1820	1650	3606	Low BSFC
3325	3025	2750	2660	2420	2200	3608	Low BSFC
5000	4550	4125	4000	3640	3300	3612	Low BSFC
6650	6050	5500	5320	4840	4400	3616	Low BSFC

Ratings continued on page 59

Ratings continued from page 58

kVA			ekW			Generator Set Model	Emissions/ Configuration
Standby	Prime	Cont.	Standby	Prime	Cont.		
720 rpm							
2400	2160	2160	1920	1728	1728	6CM25C	Low BSFC
3199	2880	2880	2559	2304	2304	8CM25C	Low BSFC
3600	3240	3240	2880	2592	2592	9CM25C	Low BSFC
2520	2400	2400	2016	1920	1920	6CM25E	Low BSFC
3360	3199	3199	2688	2559	2559	8CM25E	Low BSFC
3780	3600	3600	3024	2880	2880	9CM25E	Low BSFC
8148	7275	7275	6518	5820	5820	12CM32C	Low BSFC
10864	9700	9700	8691	7760	7760	16CM32C	Low BSFC
600 rpm							
3600	3456	3456	2880	2765	2765	6CM32C	Low BSFC
4800	4608	4608	3840	3686	3686	8CM32C	Low BSFC
5400	5184	5184	4320	4147	4147	9CM32C	Low BSFC
3960	3600	3600	3168	2880	2880	6CM32E	Low BSFC
5280	4800	4800	4224	3840	3840	8CM32E	Low BSFC
5940	5400	5400	4752	4320	4320	9CM32E	Low BSFC
514 rpm							
7639	6839	6839	6111	5471	5471	6CM43C	Low BSFC
8912	7978	7978	7130	6383	6383	7CM43C	Low BSFC
10185	9118	9118	8148	7294	7294	8CM43C	Low BSFC
11458	10258	10258	9167	8206	8206	9CM43C	Low BSFC
15278	13677	13677	12222	10942	10942	12CM43C	Low BSFC
20370	18236	18236	16296	14589	14589	16CM43C	Low BSFC

Generator Set Ratings – 1056-17460 ekW

ekW	kVA	Duty	Generator Set Model	Notes
60 Hz – 1800 rpm				
1360	1300	Prime	3512B with DGB	Diesel with up to 70% NG/LNG/CNG/FG
50 Hz – 1800 rpm				
1056	1320	Cont	3512B with DGB	Diesel with up to 70% NG/LNG/CNG/FG
1200	1500	Prime	3512B with DGB	Diesel with up to 70% NG/LNG/CNG/FG
1600	2000	Prime	3516B with DGB	Diesel with up to 70% NG/LNG/CNG/FG
50/60 Hz – 750/720 rpm				
2910	3638	Cont	6CM34DF	CRU/HFO with NG/LNG
3880	4850	Cont	8CM34DF	CRU/HFO with NG/LNG
4365	5456	Cont	9CM34DF	CRU/HFO with NG/LNG
50/60 Hz – 500/514 rpm				
5238	6548	Cont	6CM46DF	CRU/HFO with NG/LNG
6111	7639	Cont	7CM46DF	CRU/HFO with NG/LNG
6984	8730	Cont	8CM46DF	CRU/HFO with NG/LNG
7857	9821	Cont	9CM46DF	CRU/HFO with NG/LNG
10476	13095	Cont	12CM46DF	CRU/HFO with NG/LNG
13968	17460	Cont	16CM46DF	CRU/HFO with NG/LNG
17460	21825	Cont	20CM46DF	CRU/HFO with NG/LNG

50 Hz Oilfield Generator Set Ratings – 110-1560 ekW

ekW	rpm	Generator Set Model
	1500 rpm	
110	1500	G3306B
1560	1500	CG170-16

50 Hz Generator Set Ratings – 70-9700 ekW

ekW	rpm	Generator Set Model
	1500 rpm	
70/85	1500	G3306
110/125	1500	G3306
125	1500	G3406
160	1500	G3406
360	1500	G3412C
400	1500	CG132-8
480/485/495/510	1500	G3508
600	1500	CG132-12
725	1500	G3512
777	1500	G3512
800	1500	CG132-16
984	1500	G3512E
995/1030	1500	G3516
1085	1500	G3512B
1184	1500	G3512E
1200	1500	CG170-12
1555	1500	G3516C
1560	1500	CG170-16
1590	1500	G3516E
1966	1500	G3516H
1966	1500	G3520C
1972	1500	G3520C
1990	1500	G3516H
1995	1500	G3520E
2000	1500	CG170-20
2005	1500	G3516H
2486	1500	G3520H
2500	1500	G3520H
	1000 rpm	
1679	1000	G3608
2515	1000	G3612
3333	1000	CG260-12
3355	1000	G3616
4300	1000	CG260-16
	750 rpm	
6518	750	G16CM34
9700	750	G20CM34

60 Hz Oilfield Generator Set Ratings – 131-1500 ekW

ekW	rpm	Generator Set Model
1800 rpm		
131	1800	G3306B
282	1800	CG137-8
400	1800	CG137-12
1200 rpm		
360	1200	G3508
380	1200	G3508
570	1200	G3512
535	1200	G3512
755	1200	G3516
779	1200	G3516
1500	1200	G3520C

60 Hz Generator Set Ratings – 85-9700 ekW

ekW	rpm	Generator Set Model
1800 rpm		
100/85	1800	G3306 NA
135	1800	G3306B
135	1800	G3306 TA
150	1800	G3406 NA
190/170	1800	G3406 TA
253	1800	G3412
400	1800	CG137-12
400	1800	CG132-8
350/375/360	1800	G3412 TA
423	1800	G3412C
500	1800	G3412
600	1800	CG132-12
800	1800	CG132-16
1000	1800	G3516
1300	1800	G3516B
1475	1800	G3516C
1550	1800	G3516C
1660	1800	G3516C
2026	1800	G3520E
2050	1800	G3520C
900 rpm		
1510	900	G3608
2263	900	G3612
3000	900	CG260-12
3020	900	G3616
4000	900	CG260-16
720 rpm		
6518	720	G16CM34
9700	720	G20CM34

Mechanical Drive Engine Ratings; Highly Regulated Areas - 116-839 bkW

Model	bkW	bhp	rpm	Emissions
C7.1 ACERT	116-225	156-302	2200	EPA T4f NRNG, EU IV NR
C9.3 ACERT	224-298	300-400	1200	EPA T4f NRNG, EU IV NR
C13 ACERT	287-388	385-520	1200	EPA T4f NRNG, EU IV NR
C15 ACERT	354-433	475-580	1800-1200	EPA T4f NRNG, EU IV NR
C18 ACERT	429-470	575-630	1800-2000	EPA T4f NRNG, EU IV NR
C18 ACERT	563-783	755-800	1800	EPA T4f NRNG
C27 ACERT	597-708	800-950	1800	EPA T4f NRNG
C32 ACERT	839	1125	1800	EPA T4f NRNG

Ratings continued on page 64

Ratings continued from page 63

Mechanical Drive Engine Ratings; Lesser Regulated Areas - 168-15040 bkW

Model	bkW	bhp	rpm	Fuel
C7 ACERT	168-224	225-300	1800-2200	Diesel
C9 ACERT	205-261	275-350	2100	Diesel
C11 ACERT	242-336	325-450	2100	Diesel
C13 ACERT	287-387	385-520	2100	Diesel
C15 ACERT	328-443	440-595	2100	Diesel
3406C	343	460	2100	Diesel
C18 ACERT	429-596	575-800	2100	Diesel
C27 ACERT	596-782	800-1050	2100	Diesel
3508	470-847	680-1135	1200-1900	Diesel
3508B	566-671	760-900	1200	Diesel
C32 ACERT	596-1118	800-1500	1800-2200	Diesel
3512	761-1118	1020-1500	1200-1800	Diesel
3516	1011-1275	1355-1710	1200-1800	Diesel
3512B	1492-1678	2000-2250	1900	Diesel
3606	1490-1850	2000-2480	750-1000	Diesel/CRU
3608	1980-2460	2655-3300	800-1000	Diesel/CRU
3612	2980-3700	4000-4962	750-1000	Diesel/CRU
3616	3960-4920	5310-6598	800-1000	Diesel/CRU
6CM20C	1140	1529	1000	Diesel/CRU
8CM20C	1520	2038	1000	Diesel/CRU
9CM20C	1710	2293	1000	Diesel/CRU
6CM25C	1800	2414	750	Diesel/CRU
8CM25C	2400	3218	750	Diesel/CRU
9CM25C	2700	3621	750	Diesel/CRU
6CM25E	2000	2682	750	Diesel/CRU
8CM25E	2666	3575	750	Diesel/CRU
9CM25E	3000	4023	750	Diesel/CRU
6CM32C	2880	3862	600	Diesel/CRU
8CM32C	3840	5149	600	Diesel/CRU
9CM32C	4320	5793	600	Diesel/CRU
6CM32E	3000	4023	750	Diesel/CRU
8CM32E	4000	5364	750	Diesel/CRU
9CM32E	4500	6035	750	Diesel/CRU
12CM32C	6000	8045	750	Diesel/CRU
16CM32C	8000	10730	750	Diesel/CRU
6CM43C	5640	7565	514	Diesel/CRU
7CM43C	6300	8450	514	Diesel/CRU
8CM43C	7200	9655	514	Diesel/CRU
9CM43C	8460	11345	514	Diesel/CRU
12CM43C	11280	15125	514	Diesel/CRU
16CM43C	15040	20170	514	Diesel/CRU

Mechanical Drive Engine Ratings – 3000-14400 bkW

Model	bkW	bhp	rpm	Fuel
6CM34DF	3000	4023	750	CRU with NG/LNG
8CM34DF	4000	5364	750	CRU with NG/LNG
9CM34DF	4500	6035	750	CRU with NG/LNG
6CM46DF	5400	7241	514	CRU with NG/LNG
7CM46DF	6300	8448	514	CRU with NG/LNG
8CM46DF	7200	9655	514	CRU with NG/LNG
9CM46DF	8100	10862	514	CRU with NG/LNG
12CM46DF	10800	14483	514	CRU with NG/LNG
16CM46DF	14400	19310	514	CRU with NG/LNG

Mechanical Drive Engine Ratings – 71-10000 bkW

Model	bkW	bhp	rpm
G3304B	71	95	1800
G3306B	108, 151, 157	145, 203, 211	1800
G3406 TA	160, 205, 242	215, 276, 325	1800
G3408	190	400	1800
G3408C	317	425	1800
G3412 TA	448	600	1800
CG137-8	298	400	1800
CG137-12	447	600	1800
G3412C	475	637	1800
G3508 TA	391	524	1200
G3508	500	670	1400
G3508B	515	690	1400
G3512 TA	589	790	1200
G3512 LE	642	860	1200
G3512 LE	749	1005	1400
G3512B	772	1035	1400
G3516 TA	492	660	1200
G3516 NA	858	1150	1400
G3516 LE	1000	1340	1200
G3516B	1029	1380	1200
G3520B	1104	1480	1200
G3520B	1286	1725	1400
G3606	1324, 1368, 1413	1775, 1835, 1895	1000
G3608	1767, 1823, 1879	2370, 2445, 2520	1000
G3612	2647, 2733, 2822	3550, 3665, 3785	1000
G3616	3530, 3639, 3762	4735, 4880, 5045	1000
G12CM34	4575	6135	750
G16CM34	6720	9010	750
G20CM34	10000	13410	750
G3606 A4	1398, 1454, 1491	1875, 1950, 2000	1000
G3608 A4	1864, 1931, 1957	2500, 2590, 2625	1000
G3612 A4	2796, 2904, 2983	3750, 3895, 4000	1000
G3616 A4	3728, 3859, 3989	5000, 5175, 5350	1000

Land Fire Pump Engine Ratings – 172-2350 bkW

Model	bkW	bhp	rpm	Exhaust Manifold	NFPA 20	NFPA 20 Intent	Hazardous Location Certified
C7 ACERT	172	230	2200	wet		X ^{1,2}	X ³
C7 ACERT	205	275	2200	wet		X ^{1,2}	X ³
3406	218	292	1750	wet	X		
3406	218	292	1750	wet			
C9 ACERT	242	325	2200	wet		X ^{1,2}	
C9 ACERT	254	340	2200	wet		X ^{1,2}	X ³
C9 ACERT	269	361	1800	wet		X ¹	
3406	276	370	1750	dry	X		
3406	276	370	1750	dry			
3406	313	420	1750	wet	X		
3406	313	420	1750	wet			
3406	321	430	2100	wet	X		
3406	321	430	2100	wet			
3406	339	455	2300	dry	X		
3406	339	455	2300	dry			
3406	343	460	1750	dry	X		
3406	343	460	1750	dry			
3406	359	482	2100	dry	X		
3406	359	482	2100	dry			
C15 ACERT	400	536	1800-2000	wet		X ^{1,2}	X ³
C18 ACERT	448	600	2100	dry	X		
C18 ACERT	448	600	1900	dry	X		
C18 ACERT	448	600	1750	dry	X		
C18 ACERT	465	624	1800	wet		X ¹	
3412	476	638	1750	wet		X	
3412	476	638	1750	wet		X	
C18 ACERT	522	700	2100	dry	X		
C18 ACERT	522	700	1900	dry	X		
C18 ACERT	522	700	1750	dry	X		
C18 ACERT	522	700	1500	dry	X		
3412	551	739	2100	wet		X	
3412	551	739	1900	wet		X	
3412	551	739	2100	wet		X	
3412	551	739	1900	wet		X	
C18 ACERT	597	800	2100	dry	X		
C18 ACERT	597	800	1900	dry	X		

Ratings continued on page 68

Ratings continued from page 67

Model	bkW	bhp	rpm	Exhaust Manifold	NFPA 20	NFPA 20 Intent	Hazardous Location Certified
C18 ACERT	597	800	1750	dry	X		
C32 ACERT	642	860	2100	wet		X ^{1,2}	X ³
C32 ACERT	683	916	1800	wet		X ^{1,2}	
C32 ACERT	686	920	2100	wet		X ^{1,2}	X ³
3508	709	950	1460	wet		X	
3508	746	1000	1800	wet		X ²	
C32 ACERT	746	1000	1600-1800	wet		X ^{1,2}	
C32 ACERT	746	1000	1600-1800	wet		X ^{1,2}	
C32 ACERT	746	1000	1800	wet		X ^{1,2}	
3508	795	1065	1750	wet		X	
C32 ACERT	828	1110	2100	wet		X ^{1,2}	X ³
C32 ACERT	970	1300	1800	wet		X ^{1,2}	
3512	1066	1430	1460	wet		X	
3512	1118	1500	1800	wet		X ²	
3512	1195	1600	1750	wet		X	
3516	1417	1900	1460	wet		X	
3516	1480	1985	1750	wet		X	
3516	1491	2000	1800	dry			
3516	1491	2000	1800	wet		X ²	
3512C HD	1678	2250	1800	dry		X ²	
3512C HD	1765	2365	1800	dry		X ²	
3512C HD	1821	2442	1800	dry		X ¹	
3516C HD	1921	2576	1800	dry		X ¹	
3516C HD	2350	3151	1800	dry		X ²	

Note: Additional components may be required to meet NFPA 20 intent requirements.
Contact your local Cat dealer for technical support.

¹Does not include required dual ECM

²Does not include 10% overload of advertised engine power. Will meet NFPA20 intent if pump is sized with nameplate 10% below engine advertised power.

³"X" indicates factory-certified for hazardous locations; hazardous location compliance for other ratings is possible through customization at the dealership.

Consult LEDW0018 for additional details.

A large, complex offshore oil and gas platform is shown in a black and white photograph. The platform features a dense network of steel beams, ladders, and various industrial components like tanks and pipes. A prominent crane arm extends from the left side of the structure. The platform is situated in the middle of the ocean, with the horizon visible in the background.

Offshore Drilling and Production Ratings

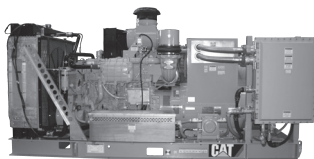
Cat engines and generator sets are widely known for performance, reliability, durability, and fuel flexibility in the offshore oil and gas industry. With ratings capable of operating on MDO, CRU, and dual fuel, offshore products include generator sets for main, essential, and emergency power plus a wide range of fire pump and crane engines. The global Cat dealer network covers offshore operations with warranty, parts, service, and technical support any time, anywhere.

Offshore Generator Set Ratings – 60 Hz

ekW	kVA	Generator Set Model
600-910	750-1138	3508B
1030-1360	1470-1700	3512B
1030-1700	1470-2125	3512C
1037-1555	1296-1944	CM20
1285-1825	1836-2281	3516B
1550-1700	1938-2125	3512E
1650-1820	2062-2600	C280-6
1833-2660	2619-2325	C175-16
1285 -2250	1836-2813	3516C
1825-2250	2281-2813	3516E
2200-2420	2750-3457	C280-8
2016-3024	2520-3760	CM25
3300-3650	4125-5214	C280-12
4400-5500	5500-7857	C280-16
2880-8691	3600-10864	CM32
2910-4365	3638-5456	CM34DF
6111-16296	7639-20370	CM43
5616-14976	7020-18720	CM46DF

Offshore Generator Set Ratings – 50 Hz

ekW	kVA	Generator Set Model
639-779	799-974	3508C
880-1200	1100-1500	3512B
1152-1728	1440-2160	CM20
1180-1600	1475-2000	3516B
1631-1843	2039-2304	3516C
1760-1940	2200-2771	C280-6
2300	2875	C175-16
2362-2600	2953-3714	C280-8
2016-3024	2520-3760	CM25
3520-3900	4400-5571	C280-12
4700-5200	5875-7429	C280-16
2880-8691	3600-10864	CM32
3085-4627	3856-5784	CM34DF
6111-16296	7239-20370	CM43
5616-14976	7020-18720	CM46DF

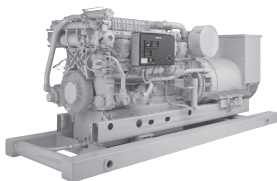


Generator Sets

Cat hazardous location generator sets combine the C15 ACERT – 1500 and 1800 rpm, C32 ACERT – 1500 and 1800 rpm, 3512C – 1800 rpm and 3516C – 1800 rpm to meet Class I Division 2 requirements for core engine electronics and on-site needs. Contact the Application Support Center for additional information.

Offshore Hazardous Location Generator Set Ratings

Model	Duty	bkW	ekW	Configuration
1500 rpm/50 Hz				
C15 ACERT	OS-Prime	360	288	Haz Loc
C32 ACERT	OS-Prime	874	800	Haz Loc
1800 rpm/60 Hz				
C15 ACERT	OS-Prime	400	320	Haz Loc
C32 ACERT	OS-Prime	994	910	Haz Loc
3512C HD	OS-Prime	1802	1730	Haz Loc
3516C HD	OS-Prime	2210	2100	Haz Loc



Offshore Generator Set Ratings

Model	Duty	bkW	ekW ¹	kVA ¹	Emissions
1000 rpm/50 Hz					
3512B	OS-Prime	933	880	1100	IMO I
3516B	OS-Prime	1257	1180	1475	IMO I
1200 rpm/60 Hz					
3508B	MCR	682	600	750	IMO I
3512B	MCR	1102	1030	1470	IMO I
3516B	MCR	1383	1285	1836	IMO I
3516B HD	MCR	1603	1530	2186	IMO I
1500 rpm/50 Hz					
3508B	OS-Prime	856	800	1000	IMO I
3512B	OS-Prime	1257	1200	1500	IMO II
3516B	OS-Prime	1566	1460	1825	IMO I
3516B	OS-Prime	1717	1600	2000	IMO II
1800 rpm/60 Hz					
3508B	OS-Prime	968	910	1138	IMO I
3512B	OS-Prime	1424	1360	1700	IMO I
3516B	OS-Prime	1901	1825	2281	IMO I

Ratings continued on page 73

Ratings continued from page 72

Specifications²

	L – mm (in)	W – mm (in)	H – mm (in)	Wt – kg (lbs)	Disp – L (in ³)
3508B	4031 (158.7)	1784 (70.2)	2048 (80.6)	12 475 (27,503)	35 (2116)
3512B	4660 (183.5)	1988 (78.3)	2043 (80.4)	14 975 (33,014)	52 (3161)
3516B	6095 (240)	2147 (84.5)	2106 (82.9)	17 500 (38,580)	69 (4233)
3516B HD	6095 (240)	2147 (84.5)	2214 (87.2)	18 800 (41,400)	78 (4764)

Bore x Stroke – mm (in) 170 x 190 (6.7 x 7.5)

Bore x Stroke – mm (in) HD 170 x 215 (6.7 x 8.5)

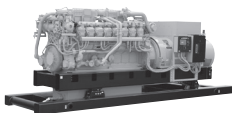
¹Dependent on generator selection and power factor.

²Dimensions and weights are dependent on generator and options selected. See general installation drawings for details.

Please see spec sheet for more information:

3508B	LEHW0123
3512B	LEHW0124, LEHW0125
3516B	LEHW0126, LEHW0127

For diesel engine rating definitions please see page 10.



Offshore Generator Set Ratings

Model	Duty	bkW	ekW ¹	kVA ¹	Emissions
1200 rpm/60 Hz					
3512C	MCR	1102	1030	1470	IMO II
3516C HD*	MCR	1383	1285	1836	IMO II/III ³
3516C HD*	MCR	1603	1530	2186	IMO II/III ³
1500 rpm/50 Hz					
3508C	OS-Prime	673	639	799	IMO II
3508C	OS-Prime	820	779	974	IMO II
3512C	OS-Prime	1362	1294	1618	IMO II
3516C	OS-Prime	1717	1631	2039	IMO II
3516C	OS-Prime	1940	1843	2304	IMO II
1800 rpm/60 Hz					
3512C	OS-Prime	1432	1360	1700	IMO II
3512C HD	OS-Prime	1632	1550	1938	IMO II
3512C HD	OS-Prime	1790	1700	2125	IMO II
3516C HD	OS-Prime	2350	2250	2813	IMO II
3512E	OS- Prime	1632	1550	1938	IMO III
3512E	OS- Prime	1789	1700	2125	IMO III
3516E	OS- Prime	1921	1825	2281	IMO III
3516E	OS- Prime	2105	2000	2500	IMO III
3516E	OS- Prime	2368	2250	2813	IMO III

*Available with increased exhaust backpressure.

¹Dependent on generator selection and power factor.

²Dimensions and weights are dependent on generator and options selected. See general installation drawings for details.

³IMO III engines require SCR aftertreatment. Contact dealer for availability and technical details.

Specifications²

	L – mm (in)	W – mm (in)	H – mm (in)	Wt – kg (lbs)	Disp – L (in ³)
3512C	5448 (214.5)	1825 (71.9)	2313 (91)	14 975 (33,300)	51.8 (3161)
3516C HD	6705 (264)	1986 (78.2)	2535 (99.8)	18 800 (41,400)	78 (4764)
3512E min	2644 (104.1)	2113 (83.2)	2036 (80.2)	4960 (10,395)	34.5 (2107)
max	3272 (128.8)	2154 (84.8)	2160 (85.0)		
3512E min	3185 (125.4)	2130 (83.9)	2142 (84.3)	6532-7411 (14,400-16,340)	51.8 (161)
max	3185 (125.4)	2130 (83.9)	2142 (84.3)		

Bore x Stroke – mm (in) 170 x 190 (6.7 x 7.5)

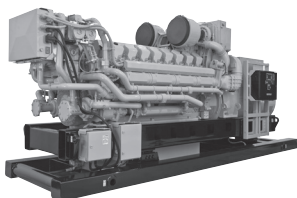
Bore x Stroke HD – mm (in) 170 x 215 (6.7 x 8.5)

Please see spec sheet for more information:

3512C LEHW0078

3516C HD LEHW0073, LEHW0155

For diesel engine rating definitions please see page 10.



Offshore Generator Set Rating

Model	Duty	bkW	ekW ¹	kVA ¹	Emissions
1200 rpm/60 Hz					
C175-16*	MCR	1930	1833	2619	IMO II
1500 rpm/50 Hz					
C175-16	OS-Prime	2418	2300	2875	IMO II
1800 rpm/60 Hz					
C175-16	OS-Prime	2800	2660	3325	IMO II

Specifications²

	L – mm (in)	W – mm (in)	H – mm (in)	Wt – kg (lbs)	Disp – L (in ³)
C175-16 50 Hz	6782 (267)	2413 (95)	2928 (115)	25 991 (57,300)	85 (5164)
C175-16 60 Hz	6742 (265)	2125 (84)	2916 (115)	24 312 (53,599)	85 (5164)

Bore x Stroke – mm (in) 175 x 220 (6.9 x 8.7)

*Available with increased exhaust backpressure.

¹Dependent on generator selection and power factor.

²Dimensions and weights are dependent on generator and options selected. See general installation drawings for details.

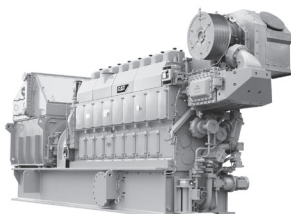
³IMO III engines require SCR aftertreatment. Contact dealer for availability and technical details.

Please see spec sheet for more information:

C175-16 50 Hz..... LEHW0151

C175-16 60 Hz LEHW6097

For diesel engine rating definitions please see page 10.



Offshore Generator Set Ratings¹

Model	Duty	bkW	ekW ²	kVA ²	Emissions
900 rpm/60 Hz					
6CM20C	Prime	1080	1037	1296	IMO II
8CM20C	Prime	1440	1382	1728	IMO II
9CM20C	Prime	1620	1555	1944	IMO II
1000 rpm/50 Hz					
6CM20C	Prime	1200	1152	1440	IMO II
8CM20C	Prime	1600	1536	1920	IMO II
9CM20C	Prime	1800	1728	2160	IMO II

¹ Ratings Available in MDO, HFO, and crude oil fuel. ISO 3046-1 reference conditions.

² Generator efficiency of 96% and 0.8 power factor.

Specifications³

	L – mm (in)	W – mm (in)	H – mm (in)	Wt – tonnes (lbs)	Disp – L (in ³)
6CM20C	6073 (239.1)	1680 (66.1)	2833 (111.5)	18.8 (42,000)	57 (3480)
8CM20C	6798 (267.6)	1816 (71.5)	3010 (118.5)	23.1 (51,000)	75 (4580)
9CM20C	7125 (280.6)	1817 (71.5)	3011 (118.5)	30.0 (67,000)	85 (5190)

Bore x Stroke – mm (in) 200 x 300 (7.9 x 11.8)

³ Base-mounted generator sets. Final dimensions dependent on generator make/type.

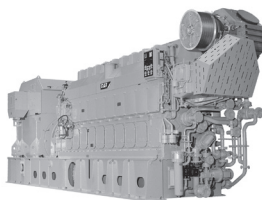
Please see spec sheet for more information:

6CM20C..... LEPW0045

8CM20C..... LEPW0046

9CM20C..... LEPW0047

For diesel engine rating definitions please see page 10.



Offshore Generator Set Ratings¹

Model	Duty	bkW	ekW ²	kVA ²	Emissions
750/720 rpm – 50/60 Hz					
6CM25E	Prime	2100	2016	2520	IMO II
8CM25E	Prime	2800	2688	3360	IMO II
9CM25E	Prime	3150	3024	3760	IMO II

¹ Ratings Available in MDO, HFO, and crude oil fuel. ISO 3046-1 reference conditions.

² Generator efficiency of 96% and 0.8 power factor.

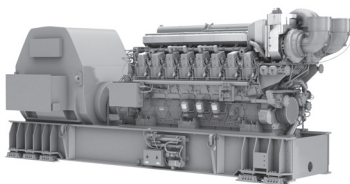
Specifications³

	L – mm (in)	W – mm (in)	H – mm (in)	Wt – tonnes (lbs)	Disp – L (in ³)
6CM25E	7579 (298.4)	2357 (92.8)	3866 (152.2)	43 (95,000)	123 (7505)
8CM25E	8313 (327.3)	2358 (92.8)	4066 (160.1)	53 (117,000)	163 (9946)
9CM25E	9302 (366.2)	2359 (92.8)	4801 (189.0)	56 (124,000)	184 (11,227)

Bore x Stroke – mm (in) 255 x 400 (10 x 15.7)

³ Base-mounted generator sets. Final dimensions dependent on generator make/type.

For diesel engine rating definitions please see page 10.



Offshore Generator Set Ratings

Model	Duty	bkW	ekW ¹	kVA ¹	Emissions
900 rpm/60 Hz					
C280-8	Cont	2300	2200	2750	IMO II
C280-8	MCR	2530	2420	3457	IMO II
C280-12	Cont	3460	3300	4125	IMO II
C280-12* ^T	MCR	3800	3650	5214	IMO II/III ²
C280-16	Cont	4600	4400	5500	IMO II
C280-16*	MCR	5060	4840	6914	IMO II/III ²
C280-16**	MCR	5600	5375	7679	IMO II
C280-16** ^T	MCR	5730	5500	7857	IMO II/III ²
1000 rpm/50 Hz					
C280-8	Cont	2460	2362	2953	IMO II
C280-8	MCR	2710	2600	3714	IMO II
C280-12	Cont	3700	3520	4400	IMO II
C280-12	MCR	4060	3900	5571	IMO II
C280-16	Cont	4920	4700	5875	IMO II
C280-16	MCR	5420	5200	7429	IMO II

* Available with front- or rear-mounted turbochargers.

** Front-mounted turbochargers, all other ratings are rear-mounted turbochargers.

^TAvailable with increased exhaust backpressure.

¹Dependent on generator selection and power factor.

²IMO III engines require SCR aftertreatment. Contact dealer for availability and technical details.

Ratings continued on page 79

Ratings continued from page 78

Specifications³

	L – mm (in)	W – mm (in)	H – mm (in)	Wt – tonnes (lbs)	Disp – L (in ³)
C280-6	7441 (292.9)	2326 (91.6)	3406 (134.1)	41.5 (91 492)	111 (6773)
C280-8	8140 (320.5)	2326 (91.6)	3406 (134.1)	49 (108,027)	148 (9031)
C280-12	8125 (319.9)	2568 (101.1)	3973 (156.4)	56.5 (124,561)	222 (13,546)
C280-16 FMT	10283 (404.8)	2800 (110.2)	4092 (161.1)	66 (145,505)	296 (18,062)
C280-16 RMT	9873 (388.7)	2931 (115.4)	4092 (161.1)	64 (141,096)	296 (18,062)

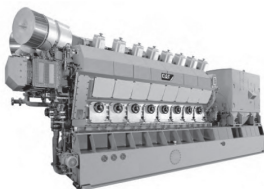
Bore x Stroke – mm (in) 280 x 300 (11 x 11.8)

³Dimensions and weights are dependent on generator and options selected. See general installation drawings for details.

Please see spec sheet for more information:

C280-6 LEHW0085, LEHW0091
 C280-8 LEHW0086, LEHW0092
 C280-12 LEHW0087, LEHW0093
 C280-16 LEHW0088, LEHW0094, LEHW0182

For diesel engine rating definitions please see page 10.



Offshore Generator Set Ratings¹

Model	Duty	bkW	ekW ²	kVA ²	Emissions
600 rpm – 50/60 Hz					
6CM32C	Prime	3000	2880	3600	IMO II
8CM32C	Prime	4000	3840	4800	IMO II
9CM32C	Prime	4500	4320	5400	IMO II
750/720 rpm – 50/60 Hz					
6CM32E	Prime	3300	3168	3960	IMO II
8CM32E	Prime	4400	4224	5280	IMO II
9CM32E	Prime	4950	4752	5940	IMO II
12CM32E	Prime	6360	6169	7712	IMO II
12CM32E ³	Prime	6720 ³	6518	8150	IMO II
16CM32E	Prime	8480	8226	10282	IMO II
16CM32E ³	Prime	8960 ³	8691	10860	IMO II

¹ Ratings Available in MDO, HFO, and crude oil fuel. ISO 3046-1 reference conditions.

² Generator efficiency of 97% and 0.8 power factor.

³ Ratings available in MDO only.

Specifications⁴

	L – mm (in)	W – mm (in)	H – mm (in)	Wt – tonnes (lbs)	Disp – L (in ³)
6CM32C	9302 (366.2)	2639 (103.9)	4801 (189.0)	73.0 (161,000)	232 (14,156)
8CM32C	10 886 (427.6)	2600 (102.4)	4869 (191.7)	92.0 (203,000)	309 (18,855)
9CM32C	11 419 (449.6)	2600 (102.4)	4869 (191.7)	98.0 (217,000)	347 (21,173)
6CM32E	9566 (376.6)	2639 (103.9)	4567 (179.8)	73.0 (161,000)	232 (14,156)
8CM32E	10 626 (418.3)	2600 (102.4)	4869 (191.7)	92.0 (203,000)	309 (18,855)
9CM32E	11 156 (439.2)	2600 (102.4)	4869 (191.7)	98.0 (217,000)	347 (21,173)
12CM32E	10 703 (421.4)	3526 (138.8)	4639 (182.6)	120.0 (265,000)	444 (27,092)
12CM32E	10 703 (421.4)	3526 (138.8)	4639 (182.6)	120.0 (265,000)	444 (27,092)
16CM32E	12 149 (478.3)	3526 (138.8)	4639 (182.6)	140.0 (309,000)	592 (36,123)
16CM32E	12 149 (478.3)	3526 (138.8)	4639 (182.6)	140.0 (309,000)	592 (36,123)

Bore x Stroke – mm (in) 320 x 480 (12.6 x 18.9)

⁴ Base-mounted generator sets. Final dimensions dependent on generator make/type.

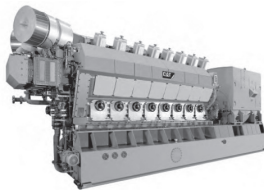
Please see spec sheet for more information:

6CM32C..... LEPW0042

8CM32C..... LEPW0043

9CM32C..... LEPW0044

For diesel engine rating definitions please see page 10.



Offshore Generator Set Ratings¹

Model	Duty	bkW	ekW ²	kVA ²	Emissions
720 rpm – 60 Hz					
6CM34DF	Prime	3000	2910	3638	IMO II/III
8CM34DF	Prime	4000	3880	4850	IMO II/III
9CM34DF	Prime	4500	4365	5456	IMO II/III
750 rpm – 50 Hz					
6CM34DF	Prime	3180	3085	3856	IMO II/III
8CM34DF	Prime	4240	4113	5141	IMO II/III
9CM34DF	Prime	4770	4627	5784	IMO II/III

¹ Ratings Available in MDO, HFO, and crude oil fuel. ISO 3046-1 reference conditions.

² Generator efficiency of 97% and 0.8 power factor.

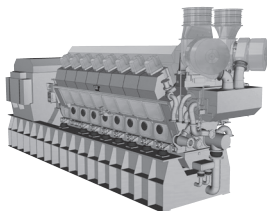
Specifications³

	L – mm (in)	W – mm (in)	H – mm (in)	Wt – tonnes (lbs)	Disp – L (in ³)
6CM34DF	9566 (376.6)	2600 (102.4)	4567 (179.8)	73.0 (161,000)	251 (15,291)
8CM34DF	10 626 (418.3)	2600 (102.4)	4770 (187.8)	92.0 (203,000)	334 (20,388)
9CM34DF	11 156 (439.2)	2600 (102.4)	4770 (187.8)	98.0 (217,000)	376 (22,936)

Bore x Stroke – mm (in) 340 x 480 (13.4 x 18.9)

³ Base-mounted generator sets. Final dimensions dependent on generator make/type.

For diesel engine rating definitions please see page 10.



Offshore Generator Set Ratings¹

Model	Duty	bkW	ekW ²	kVA ²	Emissions
500/514 rpm – 50/60 Hz					
6CM43C	Prime	6300	6111	7639	IMO II
7CM43C	Prime	7350	7130	8912	IMO II
8CM43C	Prime	8400	8148	10185	IMO II
9CM43C	Prime	9450	9167	11458	IMO II
12CM43C	Prime	12600	12222	15278	IMO II
16CM43C	Prime	16800	16296	20370	IMO II

¹ Ratings Available in MDO, HFO, and crude oil fuel. ISO 3046-1 reference conditions.

² Generator efficiency of 97% and 0.8 power factor.

Specifications³

	L – mm (in)	W – mm (in)	H – mm (in)	Wt – tonnes (lbs)	Disp – L (in ³)
6CM43C	12 202 (480.4)	3400 (133.9)	6278 (247.2)	178.0 (393,000)	532 (32,463)
7CM43C	12 999 (511.8)	3400 (133.9)	6649 (261.8)	195.0 (430,000)	620 (37,382)
8CM43C	13 729 (540.5)	3400 (133.9)	6649 (261.8)	210.0 (464,000)	709 (43,263)
9CM43C	14 459 (569.3)	3400 (133.9)	6649 (261.8)	240.0 (530,000)	797 (48,633)
12CM43C	14 740 (580.3)	3890 (153.1)	6517 (256.6)	275.0 (607,000)	1063 (64,865)
16CM43C	16 870 (664.2)	4027 (158.8)	6439 (253.5)	345.0 (761,000)	1417 (86,487)

Bore x Stroke – mm (in) 430 x 610 (16.9 x 24.0)

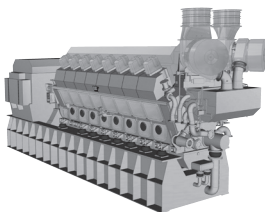
³ Base-mounted generator sets. Final dimensions dependent on generator make/type.

Please see spec sheet for more information:

12CM43C LEPW0053

16CM43C LEPW0054

For diesel engine rating definitions please see page 10.



Offshore Generator Set Ratings¹

Model	Duty	bkW	ekW ²	kVA ²	Emissions
500/514 rpm – 50/60 Hz					
6CM46DF	Prime	5790	5616	7020	IMO II/III
7CM46DF	Prime	6755	6552	8190	IMO II/III
8CM46DF	Prime	7720	7488	9360	IMO II/III
9CM46DF	Prime	8685	8424	10530	IMO II/III
12CM46DF	Prime	11580	11232	14040	IMO II/III
16CM46DF	Prime	15440	14976	18720	IMO II/III

¹ Ratings Available in LFO. HFO and crude oil ratings available separately.

² Generator efficiency of 97% and 0.8 power factor.

Specifications³

	L – mm (in)	W – mm (in)	H – mm (in)	Wt – tonnes (lbs)	Disp – L (in ³)
6CM46DF	12 202 (480.4)	3400 (133.9)	6278 (247.2)	178.0 (393,000)	608 (37,116)
7CM46DF	12 999 (511.8)	3400 (133.9)	6649 (261.8)	195.0 (430,000)	710 (43,302)
8CM46DF	13 729 (540.5)	3400 (133.9)	6649 (261.8)	210.0 (464,000)	811 (49,488)
9CM46DF	14 459 (569.3)	3400 (133.9)	6649 (261.8)	240.0 (530,000)	912 (55,674)
12CM46DF	14 740 (580.3)	3890 (153.1)	6517 (256.6)	275.0 (607,000)	1217 (74,232)
16CM46DF	16 870 (664.2)	4027 (158.5)	6439 (253.5)	345.0 (761,000)	1622 (98,975)

Bore x Stroke – mm (in) 460 x 610 (18.1 x 24.0)

³ Base-mounted generator sets. Final dimensions dependent on generator make/type.

For diesel engine rating definitions please see page 10.

Offshore Fire Pump Engine Ratings

Model	bkW	bhp	rpm	Exhaust Manifold	NFPA 20	NFPA 20 Intent	MCS Approved	Hazardous Location Certified
C7 ACERT	172	230	2200	wet		X ^{1,2}		X ³
C7 ACERT	205	275	2200	wet		X ^{1,2}		X ³
3406	218	292	1750	wet	X			
3406	218	292	1750	wet				
C9 ACERT	242	325	2200	wet		X ^{1,2}		
C9 ACERT	254	340	2200	wet		X ^{1,2}		X ³
C9 ACERT	269	361	1800	wet		X ¹	X	
3406	276	370	1750	dry	X			
3406	276	370	1750	dry				
3406	313	420	1750	wet	X			
3406	313	420	1750	wet				
3406	321	430	2100	wet	X			
3406	321	430	2100	wet				
3406	339	455	2300	dry	X			
3406	339	455	2300	dry				
3406	343	460	1750	dry	X			
3406	343	460	1750	dry				
3406	359	482	2100	dry	X			
3406	359	482	2100	dry				
C15 ACERT	400	536	1800-2000	wet		X ^{1,2}		X ³
C18 ACERT	448	600	2100	dry	X			
C18 ACERT	448	600	1900	dry	X			
C18 ACERT	448	600	1750	dry	X			
C18 ACERT	465	624	1800	wet		X ¹	X	
3412	476	638	1750	wet		X		
3412	476	638	1750	wet		X		
C18 ACERT	522	700	2100	dry	X			
C18 ACERT	522	700	1900	dry	X			
C18 ACERT	522	700	1750	dry	X			
C18 ACERT	522	700	1500	dry	X			
3412	551	739	2100	wet		X		
3412	551	739	1900	wet		X		
3412	551	739	2100	wet		X		
3412	551	739	1900	wet		X		
C18 ACERT	597	800	2100	dry	X			
C18 ACERT	597	800	1900	dry	X			

Ratings continued on page 85

Ratings continued from page 84

Model	bkW	bhp	rpm	Exhaust Manifold	NFPA 20	NFPA 20 Intent	MCS Approved	Hazardous Location Certified
C18 ACERT	597	800	1750	dry	X			
C32 ACERT	642	860	2100	wet		X ^{1,2}		X ³
C32 ACERT	683	916	1800	wet		X ^{1,2}	X	
C32 ACERT	686	920	2100	wet		X ^{1,2}		X ³
3508	709	950	1460	wet		X		
3508	735	986	1750	wet				
3508	746	1000	1800	wet		X ²	X	
C32 ACERT	746	1000	1600-1800	wet		X ^{1,2}	X	
C32 ACERT	746	1000	1600-1800	wet		X ^{1,2}	X	
C32 ACERT	746	1000	1800	wet		X ^{1,2}	X	
3508	795	1065	1750	wet		X		
C32 ACERT	828	1110	2100	wet		X ^{1,2}		X ³
C32 ACERT	970	1300	1800	wet		X ^{1,2}	X	
3512	1066	1430	1460	wet		X		
3512	1118	1500	1800	wet		X ²	X	
3512	1130	1515	1750	wet				
3512	1195	1600	1750	wet		X		
3516	1417	1900	1460	wet		X		
3516	1425	1911	1750	wet				
3516	1480	1985	1750	wet		X		
3516	1491	2000	1800	dry				
3516	1491	2000	1800	wet		X ²	X	
3512C HD	1678	2250	1800	dry		X ²	X	
3512C HD	1765	2365	1800	dry		X ²	X	
3512C HD	1821	2442	1800	dry		X ¹	X	
3516C HD	1921	2576	1800	dry		X ¹	X	
3516C HD	2350	3151	1800	dry		X ²	X	

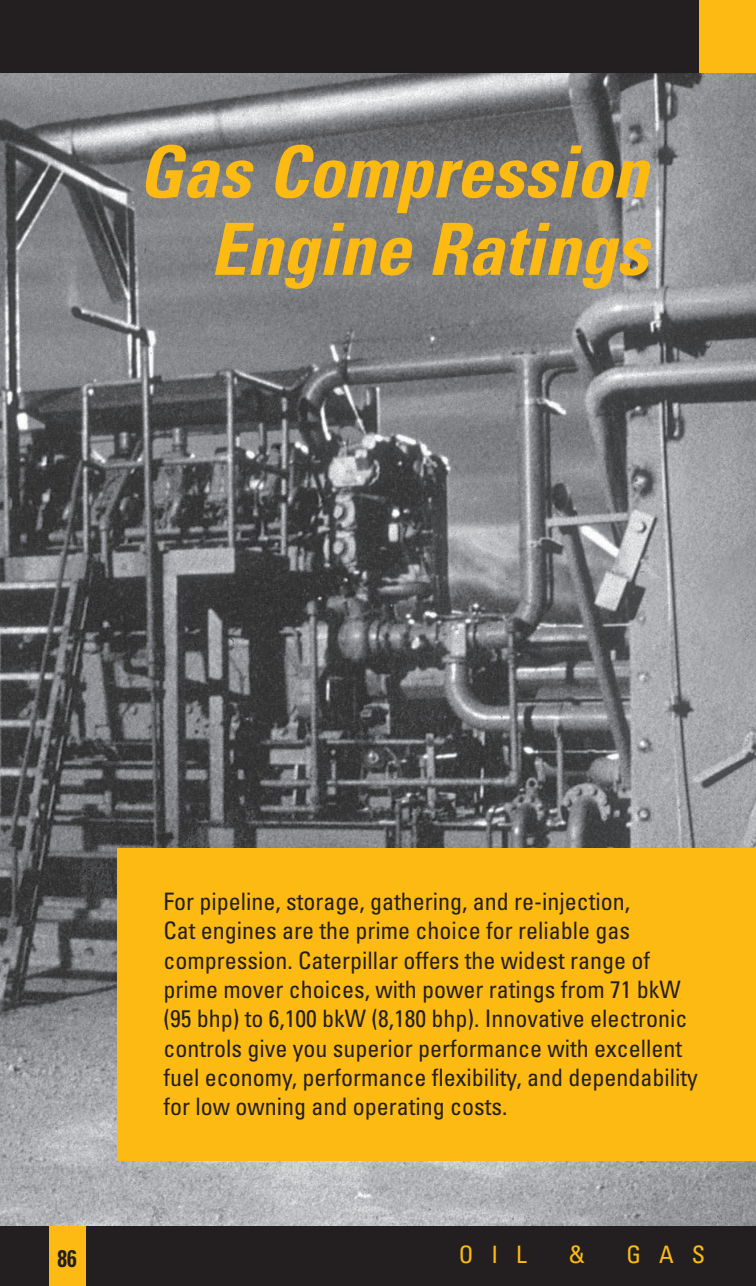
Note: Additional components may be required to meet NFPA 20 intent requirements.
Contact your local Cat dealer for technical support.

¹Does not include required dual ECM

²Does not include 10% overload of advertised engine power. Will meet NFPA20 intent if pump is sized with nameplate 10% below engine advertised power.

³"X" indicates factory-certified for hazardous locations; hazardous location compliance for other ratings is possible through customization at the dealership.

Consult LEDW0018 for additional details.

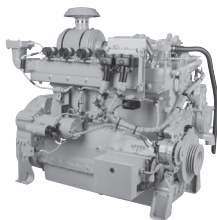


Gas Compression Engine Ratings

For pipeline, storage, gathering, and re-injection, Cat engines are the prime choice for reliable gas compression. Caterpillar offers the widest range of prime mover choices, with power ratings from 71 bkW (95 bhp) to 6,100 bkW (8,180 bhp). Innovative electronic controls give you superior performance with excellent fuel economy, performance flexibility, and dependability for low owning and operating costs.

Gas Compression Engine Ratings

Range	Engine	Page Number
95-211 bhp	G3300	88
215-637 bhp	G3400	89
400-600 bhp	CG137	90
524-1725 bhp	G3500	91-92
1775-5350 bhp	G3600	93-95
6135-8180 bhp	GCM34	96



Gas Ratings

Model	Rating Tier	bkW	bhp	rpm	Emissions	Notes
G3304B NA	Cont	71	95	1800	NSPS Site Compliant Capable	With Caterpillar or Customer-provided AFRC & Aftertreatment* 0.5 & 1.0 g/bhp-hr NOx
G3306B NA	Cont	108	145	1800	NSPS Site Compliant Capable	With Caterpillar or Customer-provided AFRC & Aftertreatment* 0.5 & 1.0 g/bhp-hr NOx
G3306B TA ¹	Cont	151	203	1800	NSPS Site Compliant Capable	With Caterpillar or Customer-provided AFRC & Aftertreatment* 0.5 & 1.0 g/bhp-hr NOx
G3306B TAA ¹	Cont	157	211	1800	NSPS Site Compliant Capable	With Caterpillar or Customer-provided AFRC & Aftertreatment* 0.5 & 1.0 g/bhp-hr NOx

¹Dependent upon engine configuration selected.

¹54°C/130°F Water to Aftercooler

Ratings listed are for 25°C (77°F) ambient temperature, 500' altitude, and pipeline quality gas.

Specifications

	L – mm (in)	W – mm (in)	H – mm (in)	Wt – kg (lbs)	Disp – L (in ³)
G3304	1158 (46)	744 (29)	1170 (46)	757 (1670)	7 (425)
G3306	1539 (60)	978 (38)	1261 (50)	948 (2090)	10.5 (640)

Bore x Stroke – mm (in) 121 x 152 (4.75 x 6.0)

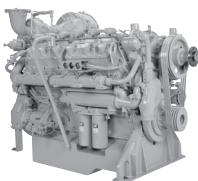
Please see spec sheet for more information:

G3304B LEHW0017

G3306B TA LEHW8815

G3306B NA LEHW0111

For gas engine rating conditions please see page 10.



Gas Ratings

Model	Rating Tier	bkW	bhp	rpm	Emissions	Notes
G3406 NA	Cont	160	215	1800	NSPS Site Compliant Capable	With Customer-supplied AFRC & Aftertreatment 0.5% O ₂ or 2% O ₂ Set Points
G3406 TA ¹	Cont	206	276	1800	NSPS Site Compliant Capable	With Customer-supplied AFRC & Aftertreatment 0.5% O ₂ Set Point
G3406 TA ¹	Cont	242	325	1800	Export Only	2% O ₂ Emission Rating
G3408 NA	Cont	190	255	1800	NSPS Site Compliant Capable	With Customer-supplied AFRC & Aftertreatment 0.5% O ₂ or 2% O ₂ Set Points
G3408 TA ¹	Cont	298	400	1800	Export Only	2% O ₂ Emission Rating
G3408C LE ¹	Cont	317	425	1800	NSPS Site Compliant Capable ²	With Customer-supplied Aftertreatment
G3412 TA ¹	Cont	448	600	1800	Export Only	2% O ₂ Set Point
G3412C LE ¹	Cont	475	637	1800	NSPS Site Compliant Capable ²	With Customer-supplied Aftertreatment

¹ 54°C/130°F Water to Aftercooler

² NSPS Site Compliant Capable with Customer-supplied SCR Aftertreatment

Specifications

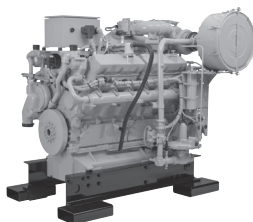
	L – mm (in)	W – mm (in)	H – mm (in)	Wt – kg (lbs)	Disp – L (in ³)
G3406 TA	1934 (76)	1270 (50)	1433 (56)	1362 (3000)	14.6 (893)
G3408 TA	1738 (68)	1312 (52)	1542 (61)	1680 (3700)	18 (1099)
G3408C LE	1756 (69.1)	1563 (61.5)	1758 (69.2)	1680 (3700)	18 (1099)
G3412 TA	2087 (82)	1224 (48)	1542 (61)	2143 (4720)	27 (1649)
G3412C LE	2442 (96)	1598 (63)	1960 (77)	2141 (4720)	27 (1649)

Bore x Stroke – mm (in) 137 x 152 (5.4 x 6.0)

Please see spec sheet for more information:

G3406..... LEHW0029 G3408C LE.....LEHW0031 G3412C LE..... LEHW0033
G3408..... LEHW0030 G3412.....LEHW0032

For gas engine rating conditions please see page 10.



Gas Ratings

Model	Rating Tier	bkW	bhp	rpm	Emissions	Notes
CG137-8	Cont	298	400	1800	NSPS Site Compliant Capable	With Customer-provided AFRC & Aftertreatment
CG137-12	Cont	447	600	1800	NSPS Site Compliant Capable	With Caterpillar AFRC & Aftertreatment 0.5 & 1.0 g/bhp-hr NOx or Customer-provided AFRC & Aftertreatment

Specifications

	L – mm (in)	W – mm (in)	H – mm (in)	Wt – kg (lbs)	Disp – L (in³)
CG137-8	1627 (64.0)	1443 (56.8)	1758 (69.2)	2835 (6250)	18 (1099)
CG137-12	2092 (82.4)	1423 (56)	1778 (70)	2200 (4850)	27 (1649)

Bore x Stroke – mm (in) 137 x 152 (5.4 x 6)

Please see spec sheet for more information:

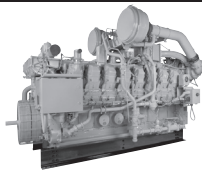
CG137-8 LEHW0153

CG137-12 Integrated Catalyst LEHW0119

CG137-12 LEHW0270

Ratings listed are for 25°C (77°F) ambient temperature, 500' altitude, and pipeline quality gas.

For gas engine rating conditions please see page 10.



Gas Ratings

Model	Rating Tier	bkW	bhp	rpm	Emissions	Notes
G3508 TA ¹	Cont	391	524	1200	NSPS Site Compliant Capable	With Customer-supplied AFRC & Aftertreatment 0.5% O ₂ Set Point
G3508 LE ¹	Cont	500	670	1400	NSPS Site Compliant Capable ⁴	With Customer-supplied Aftertreatment, 2 g/bhp-hr NOx
G3508B LE ^{1,2,3}	Cont	514	690	1400	NSPS Site Compliant Capable	With Customer-supplied Aftertreatment 0.5 & 1 g/bhp-hr NOx
G3512 TA ¹	Cont	589	790	1200	NSPS Site Compliant Capable	With Customer-supplied AFRC & Aftertreatment 0.5% O ₂ Set Point
G3512 LE ¹	Cont	642	860	1200	NSPS Site Compliant Capable ⁴	With Customer-supplied Aftertreatment, 2 g/bhp-hr NOx
G3512 LE ¹	Cont	749	1004	1400	NSPS Site Compliant Capable ⁴	With Customer-supplied Aftertreatment 2 g/bhp-hr NOx
G3512B LE ^{1,2,3}	Cont	772	1035	1400	NSPS Site Compliant Capable	With Customer-supplied Aftertreatment 0.5 & 1 g/bhp-hr NOx
G3516 NA	Cont	492	660	1200	Export Only	With Customer-supplied AFRC & Aftertreatment 0.5% O ₂ Set Point
G3516 TA ¹	Cont	783	1050	1200	NSPS Site Compliant Capable	With Customer-supplied AFRC & Aftertreatment 0.5% O ₂ Set Point
G3516 LE ¹	Cont	858	1150	1200	NSPS Site Compliant Capable ⁴	With Customer-supplied Aftertreatment, 2 g/bhp-hr NOx
G3516 LE ¹	Cont	1000	1340	1400	NSPS Site Compliant Capable ⁴	With Customer-supplied Aftertreatment 2 g/bhp-hr NOx
G3516B LE ^{1,2,3}	Cont	1029	1380	1400	NSPS Site Compliant Capable	With Customer-supplied Aftertreatment 0.5 & 1 g/bhp-hr NOx
G3520B LE ^{1,2,3}	Cont	1104	1480	1200	NSPS Site Compliant Capable	With Customer-supplied Aftertreatment 0.5 & 1 g/bhp-hr NOx
G3520B LE ^{1,2,3}	Cont	1286	1725	1400	NSPS Site Compliant Capable	With Customer-supplied Aftertreatment 0.5 & 1 g/bhp-hr NOx

¹ 54°C/130°F Water to Aftercooler

² 250 mg/N•m³ dry NOx emissions (corrected to 5% O₂)

³ 500 mg/N•m³ dry NOx emissions (corrected to 5% O₂)

⁴ NSPS Site Compliant Capable with Customer-supplied SCR Aftertreatment

Ratings continued on page 92

Ratings continued from page 91

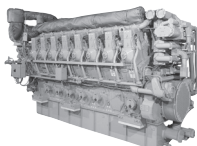
Specifications

	L – mm (in)	W – mm (in)	H – mm (in)	Wt – kg (lbs)	Disp – L (in ³)
G3508 LE	2440 (96)	1768 (70)	1907 (76)	5420 (11,950)	34.5 (2105)
G3508B LE	2522 (99)	2014 (79)	2131 (84)	5420 (11,950)	34.5 (2105)
G3512 LE	2786 (109)	1790 (71)	1863 (73)	6676 (14,720)	51.8 (3158)
G3512B LE	3023 (119)	2220 (87.4)	2136 (84.1)	6676 (14,720)	51.8 (3158)
G3516 LE	3339 (131)	1820 (72)	1863 (73)	8015 (17,670)	69 (4211)
G3516B LE	3400 (133)	1844 (73)	2286 (90)	8382 (18,480)	69 (4211)
G3520B LE	4180 (164)	1755 (69)	2385 (94)	9875 (21,770)	86 (5263)

Bore x Stroke – mm (in) 170 x 190 (6.7 x 7.5)**Please see spec sheet for more information:**

G3508 TA	LEHW0034	G3516 TA	LEHW0036
G3508B LE	LEHW0072	G3516B LE	LEHW0037
G3512 TA	LEHW0035	G3520B LE (1200 rpm)	LEHW0017
G3512B LE	LEHW0095	G3520B LE (1400 rpm)	LEHW0038

For gas engine rating conditions please see page 10.



Gas Ratings

Model	Rating Tier	bkW	bhp	rpm	Emissions	Notes
G3606 LE ^{3,4,5}	Cont	1324	1775	1000	NSPS Site Compliant Capable	With Customer-supplied Aftertreatment 0.5 & 0.7 g/bhp-hr NOx
G3606 LE ^{2,5}	Cont	1368	1835	1000	NSPS Site Compliant Capable	With Customer-supplied Aftertreatment 0.7 g/bhp-hr NOx
G3606 LE ^{1,5}	Cont	1413	1895	1000	NSPS Site Compliant Capable	With Customer-supplied Aftertreatment 0.7 g/bhp-hr NOx
G3608 LE ^{3,4,5}	Cont	1767	2370	1000	NSPS Site Compliant Capable	With Customer-supplied Aftertreatment 0.5 & 0.7 g/bhp-hr NOx
G3608 LE ^{2,5}	Cont	1823	2445	1000	NSPS Site Compliant Capable	With Customer-supplied Aftertreatment 0.7 g/bhp-hr NOx
G3608 LE ^{1,5}	Cont	1879	2520	1000	NSPS Site Compliant Capable	With Customer-supplied Aftertreatment 0.7 g/bhp-hr NOx
G3612 LE ^{3,4,5}	Cont	2647	3550	1000	NSPS Site Compliant Capable	With Customer-supplied Aftertreatment 0.5 & 0.7 g/bhp-hr NOx
G3612 LE ^{2,5}	Cont	2733	3665	1000	NSPS Site Compliant Capable	With Customer-supplied Aftertreatment 0.7 g/bhp-hr NOx
G3612 LE ^{1,5}	Cont	2822	3785	1000	NSPS Site Compliant Capable	With Customer-supplied Aftertreatment 0.7 g/bhp-hr NOx
G3616 LE ^{3,4,5}	Cont	3531	4735	1000	NSPS Site Compliant Capable	With Customer-supplied Aftertreatment 0.5 & 0.7 g/bhp-hr NOx
G3616 LE ^{2,5}	Cont	3647	4890	1000	NSPS Site Compliant Capable	With Customer-supplied Aftertreatment 0.7 g/bhp-hr NOx
G3616 LE ^{1,5}	Cont	3762	5045	1000	NSPS Site Compliant Capable	With Customer-supplied Aftertreatment 0.7 g/bhp-hr NOx

¹ 32°C Aftercooler Water & 88°C Jacket Water

² 43°C Aftercooler Water & 88°C Jacket Water

³ 54°C Aftercooler Water & 88°C Jacket Water

⁴ 250 mg/N•m³ dry NOx emissions (corrected to 5% O₂)

⁵ 350 mg/N•m³ dry NOx emissions (corrected to 5% O₂)

Ratings listed are for 25°C (77°F) ambient temperature,
500' altitude, and pipeline quality gas.

Ratings continued on page 94

Ratings continued from page 93

Specifications

	L – mm (in)	W – mm (in)	H – mm (in)	Wt – kg (lbs)	Disp – L (in ³)
G3606 LE	4638 (183)	1744 (69)	2921 (115)	15 676 (34,560)	127.2 (7762)
G3608 LE	5465 (215)	1868 (74)	2922 (115)	19 000 (41,888)	169.6 (10,350)
G3612 LE	4735 (186)	2380 (94)	3220 (127)	25 084 (55,300)	254 (15,528)
G3616 LE	5661 (223)	2380 (94)	3208 (126)	29 892 (65,900)	339 (20,705)

Bore x Stroke – mm (in) 300 x 300 (11.8 x 11.8)**Please see spec sheet for more information:**

G3606 LE.....	LEHW0039	G3612 LE.....	LEHW0041
G3608 LE.....	LEHW0040	G3616 LE.....	LEHW0042

For gas engine rating conditions please see page 10.

Gas Ratings

Model	Rating Tier	bkW	bhp	rpm	Emissions	Notes
G3606 A4 ¹	Cont	1398	1875	1000	NSPS Site Compliant Capable	With Customer-supplied Aftertreatment 0.3 and 0.5 g/bhp-hr NOx
G3606 A4 ²	Cont	1454	1950	1000	NSPS Site Compliant Capable	With Customer-supplied Aftertreatment 0.3 and 0.5 g/bhp-hr NOx
G3606 A4 ³	Cont	1499	2010	1000	NSPS Site Compliant Capable	With Customer-supplied Aftertreatment 0.3 and 0.5 g/bhp-hr NOx
G3608 A4 ¹	Cont	1864	2500	1000	NSPS Site Compliant Capable	With Customer-supplied Aftertreatment 0.3 and 0.5 g/bhp-hr NOx
G3608 A4 ²	Cont	1931	2590	1000	NSPS Site Compliant Capable	With Customer-supplied Aftertreatment 0.3 and 0.5 g/bhp-hr NOx
G3608 A4 ³	Cont	1995	2675	1000	NSPS Site Compliant Capable	With Customer-supplied Aftertreatment 0.3 and 0.5 g/bhp-hr NOx
G3612 A4 ¹	Cont	2796	3750	1000	NSPS Site Compliant Capable	With Customer-supplied Aftertreatment 0.3 and 0.5 g/bhp-hr NOx
G3612 A4 ²	Cont	2890	3875	1000	NSPS Site Compliant Capable	With Customer-supplied Aftertreatment 0.3 and 0.5 g/bhp-hr NOx
G3612 A4 ³	Cont	2983	4000	1000	NSPS Site Compliant Capable	With Customer-supplied Aftertreatment 0.3 and 0.5 g/bhp-hr NOx
G3616 A4 ¹	Cont	3729	5000	1000	NSPS Site Compliant Capable	With Customer-supplied Aftertreatment 0.3 and 0.5 g/bhp-hr NOx
G3616 A4 ²	Cont	3859	5175	1000	NSPS Site Compliant Capable	With Customer-supplied Aftertreatment 0.3 and 0.5 g/bhp-hr NOx
G3616 A4 ³	Cont	3990	5350	1000	NSPS Site Compliant Capable	With Customer-supplied Aftertreatment 0.3 and 0.5 g/bhp-hr NOx

¹ 54°C Aftercooler Water & 88°C Jacket Water

² 43°C Aftercooler Water & 88°C Jacket Water

³ 32°C Aftercooler Water & 88°C Jacket Water

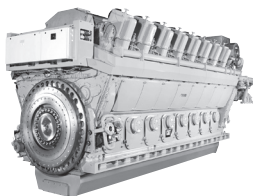
Specifications

	L – mm (in)	W – mm (in)	H – mm (in)	Wt – kg (lbs)	Disp – L (in ³)
G3606 A4	4833.4 (190.3)	2225.2 (87.6)	2923.2 (115.1)	16 639 (36,683)	127.2 (7762)
G3608 A4	5656 (222.68)	2260 (89)	2922 (115)	21 092 (46,500)	169.6 (10,350)
G3612 A4	5431.9 (210.31)	2731.7 (107.56)	3279 (129)	26 535 (58,500)	254 (15,528)
G3616 A4	5652 (222.5)	2634 (104)	3278 (129)	32 659 (72,000)	339 (20,705)

Please see spec sheet for more information:

G3606 LE.....	LEHW0234	G3612 LE.....	LEHW0236
G3608 LE.....	LEHW0235	G3616 LE.....	LEHW0198

For gas engine rating conditions please see page 10.



Gas Ratings

Model	Rating Tier	bkW	bhp	rpm	Emissions	Notes
G12CM34	Cont	4575	6135	750	NSPS Site Compliant Capable	0.5 & 0.7 g/bhp-hr NOx
G16CM34	Cont	6100	8180	750	NSPS Site Compliant Capable	0.5 & 0.7 g/bhp-hr NOx

Specifications

	L – mm (in)	W – mm (in)	H – mm (in)	Wt – kg (lbs)	Disp – L (in ³)
G12CM34	7055 (278)	2992 (118)	3875 (153)	64 400 (142,000)	457 (27,907)
G16CM34	8405 (331)	2992 (118)	3875 (153)	82 000 (181,000)	610 (37,209)
Bore x Stroke – mm (in)	340 x 420 (13.4 x 16.5)				

Please see spec sheet for more information:

G12CM34 LEHW8997

G16CM34 LEHW0001

For gas engine rating conditions please see page 10.

Specifications

	CN1566	CN2086	CN2586	CN3086	CN3586	CN4086	CN5086
Speed	1200 rpm	900 rpm	900 rpm	900 rpm	900 rpm	900 rpm	900 rpm
hp Rating	1500	2000	2500	3000	3500	4000	5000
Enclosure Type	WP11	WP11	WP11	WP11	WP11	WP11	WP11
Number of Poles	6	8	8	8	8	8	8
Voltages	4000V/ 4160V 60 Hz	4000V/ 4160V 60 H	4000V/ 4160V 60 Hz	4000V/ 4160V 60 Hz	4000V/ 4160V 60 Hz	4000V/ 4160 V 60 Hz	4000V/ 4160 V 60 Hz
Service Factor (Inverter Fed)	1.15 (1.0)	1.15 (1.0)	1.15 (1.0)	1.15 (1.0)	1.15 (1.0)	1.15 (1.0)	1.15 (1.0)
Temperature Rise (at rated load)	Class B	Class B	Class B	Class B	Class B	Class B	Class B
Insulation	Class F	Class F	Class F	Class F	Class F	Class F	Class F
Weight	9546 lb*	13,955 lb*	15,410 lb*	20,547 lb*	21,869 lb*	22,751 lb*	24,074 lb*

*+/-5%

Unit Conversions

Torque

$$1 \text{ N}\cdot\text{m} = 0.737562 \text{ ft}\cdot\text{lb}$$

Power

$$1 \text{ kW} = 1.341022 \text{ hp}$$

Volume

$$1 \text{ L} = 61.023744 \text{ in}^3$$

Length

$$1 \text{ mm} = 0.03937 \text{ in}$$

Mass

$$1 \text{ kg} = 2.204623 \text{ lb}$$

Energy

$$1 \text{ kJ} = 0.948452 \text{ BTU}$$

Pressure

$$1 \text{ kPa} = 0.145038 \text{ psi}$$

Temperature

$$(^{\circ}\text{C} \times 1.8) + 32 = ^{\circ}\text{F}$$

$$\frac{(^{\circ}\text{F} - 32)}{1.8} = ^{\circ}\text{C}$$

Fuel Consumption

$$\frac{\text{g}}{\text{bkW}\cdot\text{hr}} \rightarrow \frac{\text{L}}{\text{hr}}$$

$$\left(\frac{\text{g}}{\text{bkW}\cdot\text{hr}} \right) \times \left(\frac{\text{Power (bkW)}}{1000 \times \text{fuel density (kg/L)}} \right) = \frac{\text{L}}{\text{hr}}$$

Torque

$$\frac{30,000}{\pi} \times \frac{\text{Power (bkW)}}{\text{Speed (rpm)}} = \text{Torque (N}\cdot\text{m)}$$

Displacement

$$\frac{\pi}{4 \times 10^6} \times [\text{bore (mm)}]^2 \times \text{stroke (mm)} \times \# \text{ cylinders} = \text{Displacement (L)}$$

BMEP

$$\frac{4 \pi \times \text{Torque (N}\cdot\text{m)}}{\text{Displacement (L)}} = \text{BMEP (kPa)}$$

Generator Set Ratings

$$\text{Real Power (ekW)} = \text{Brake Power (bkW)} \times \text{Generator Efficiency}$$

$$\text{Power Factor} = \frac{\text{Real Power (ekW)}}{\text{Apparent Power (kVA)}}$$

$$\text{Apparent Power (kVA)} = \frac{1.73 \times \text{Voltage} \times \text{Current}}{1000}$$

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Materials and specifications are subject to change without notice. Rating ranges listed include the lowest and highest available for a specific engine or family of engines. Load factor and time at rated load and speed will determine the best engine/rating match.

LECW2462-23 (6-16)

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