Cat® C175-20

Diesel Generator Sets





Image shown ma	y not reflect actual	configuration

Bore – mm (in)	175 (6.89)	
Stroke – mm (in)	220 (8.66)	
Displacement – L (in³)	105.8 (6456)	
Compression Ratio	15.3:1	
Aspiration	TA	
Fuel System	Common Rail	
Governor Type	ADEM™ A4	

Standby	Mission Critical	Prime	Emissions Performance
60 Hz ekW (kVA)	60 Hz ekW (kVA)	60 Hz ekW (kVA)	
3500 (4375)	3500 (4375)	3180 (3975)	U.S. EPA Certified for Emergency Stationary Applications (Tier 2)

Features

Cat® Diesel Engine

- Meets U.S. EPA Stationary Emergency Use Only (Tier 2) emission standards
- Reliable performance proven in thousands of applications worldwide
- Certified alternative fuels including Hydrotreated Vegetable Oil (HVO), Renewable Diesel (RD) and Hydrotreated Renewable Diesel (HRD) which meet EN 15940 or ASTM D975 can be used or blended with EN 590 diesel

Generator Set Package

- Accepts 100% block load in one step
- Meets NFPA 110 loading requirements
- Conforms to ISO 8528-5 G3 load acceptance requirements
- Reliability verified through torsional vibration, fuel consumption, oil consumption, transient performance, and endurance testing

Alternators

- Superior motor starting capability minimizes need for oversizing generator
- Designed to match performance and output characteristics of Cat diesel engines

Cooling System

- Cooling systems available to operate in ambient temperatures up to 50°C (122°F)
- Tested to ensure proper generator set cooling

Cat Energy Control System (ECS)

- · User-friendly interface and navigation
- Scalable system to meet a wide range of installation requirements
- Expansion modules and site specific programming for specific customer requirements
- · Graphical touchscreen display
- · Easily upgradeable

Warranty

- 24 months/1000-hour warranty for standby and mission critical ratings
- 12 months/unlimited hour warranty for prime and continuous ratings
- Extended service protection is available to provide extended coverage options

Worldwide Product Support

- Cat dealers have over 1,800 dealer branch stores operating in 200 countries
- Your local Cat dealer provides extensive post-sale support, including maintenance and repair agreements

Financing

- Caterpillar offers an array of financial products to help you succeed through financial service excellence
- Options include loans, finance lease, operating lease, working capital, and revolving line of credit
- Contact your local Cat dealer for availability in your region

LEHE20132-05 Page 1 of 4



Standard and Optional Equipment

Engine	Power Termination	Vibration Isolators		
Air Cleaner □ Single element Muffler	Type ☐ Bus bar ☐ Circuit breaker	□ Rubber□ Spring□ Seismic rated		
☐ Industrial grade (15 dB)	□ 4000A □ 5000A □ 6000A □ UL □ IEC □ 3-pole □ 4-pole	Cat Connect		
□ Residential grade (25 dB)□ Critical grade (35 dB)		Connectivity		
Starting	☐ Electrically operated	☐ Ethernet☐ Cellular		
☐ Standard batteries ☐ Oversized batteries	Trip Unit □ LSI □ LSI-G □ LSIG-P			
☐ Standard electric starter(s)		Extended Service Options		
☐ Heavy duty electric starter(s)	2 2010 1	Terms		
□ Dual electric starter(s)□ Air starter(s)	Control System	☐ 2 year (prime) ☐ 3 year		
☐ Jacket water heater	Controller	□ 5 year		
Altamatan	☐ Cat ECS 100	☐ 10 year		
Alternator	☐ Cat ECS 200 ☐ EMCP 4.4	Coverage		
Output voltage □ 416V □ 6600V □ 480V □ 6900V □ 600V □ 12470V □ 4160V □ 13200V	Attachments □ Local annunciator module □ Remote annunciator module □ Expansion I/O module	□ Silver□ Gold□ Platinum□ Platinum Plus		
□ 6300V □ 13800V	☐ Remote monitoring software	Ancillary Equipment		
Temperature Rise (over 40°C ambient)	Charging	☐ Automatic transfer switch (ATS)		
□ 125°C/130°C □ 120°C □ 105°C	 □ Battery charger – 20A □ Battery charger – 35A □ Battery charger – 50A 	☐ Paralleling switchgear☐ Paralleling controls		
□ 80°C	, 3	Certifications		
Winding type ☐ Form wound		☐ ULC 2200 Listed☐ IBC seismic certification☐ OSHPD pre-approval		
Excitation ☐ Permanent magnet (PM)				
Attachments ☐ Anti-condensation heater				

Note: Some options may not be available on all models. Certifications may not be available with all model configurations. Consult factory for availability.

☐ Stator and bearing temperature monitoring and protection

LEHE20132-05 Page 2 of 4



Package Performance

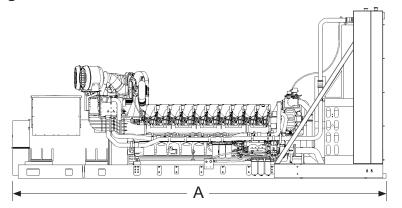
Engine coolant capacity – L (gal)	Performance	Sta	andby	Missio	n Critical	Pi	rime
Gen set power rating with fan @ 0.8 power factor 4375 kVA 4375 kVA 3975 kVA Emissions EPA ESE (Tier 2)	Frequency	60) Hz	60) Hz	60) Hz
March Mar	Gen set power rating with fan	350	0 ekW	350	0 ekW	318	0 ekW
Performance number		4375 kVA		4375 kVA		3975 kVA	
Puel Consumption 100% load with fan – L/hr (gal/hr) 914.3 (241.5) 914.3 (241.5) 834.0 (220.3) 75% load with fan – L/hr (gal/hr) 707.7 (186.9) 707.7 (186.9) 667.1 (176.2) 50% load with fan – L/hr (gal/hr) 561.0 (148.2) 561.0 (148.2) 515.0 (136.0) 25% load with fan – L/hr (gal/hr) 342.9 (90.6) 342.9 (90.6) 317.1 (83.8) (80.0) (8	Emissions	EPA ES	SE (Tier 2)	EPA ESE (Tier 2)		EPA ESE (Tier 2)	
100% load with fan - L/hr (gal/hr)	Performance number	EM5	747-01	EM5749-01		EM5751-01	
75% load with fan – L/hr (gal/hr) 707.7 (186.9) 707.7 (186.9) 667.1 (176.2) 50% load with fan – L/hr (gal/hr) 561.0 (148.2) 561.0 (148.2) 515.0 (136.0) 25% load with fan – L/hr (gal/hr) 342.9 (90.6) 342.9 (90.6) 317.1 (83.8) Cooling System Radiator air flow restriction (system) – kPa (in. water) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 342.6 (120988) 342	Fuel Consumption						
56% load with fan - L/hr (gal/hr) 561.0 (148.2) 561.0 (148.2) 515.0 (136.0) 25% load with fan - L/hr (gal/hr) 342.9 (90.6) 342.9 (90.6) 342.9 (90.6) 317.1 (83.8) Cooling System Radiator air flow restriction (system) - Radiator air flow restriction (system) - Radiator air flow may may may may be a subject of the part of	100% load with fan – L/hr (gal/hr)	914.3	(241.5)	914.3	(241.5)	834.0	(220.3)
Second with fan - L/hr (gal/hr) 342.9 (90.6) 342.9 (90.6) 317.1 (83.8)	75% load with fan – L/hr (gal/hr)	707.7	(186.9)	707.7	(186.9)	667.1	(176.2)
Cooling System Radiator air flow restriction (system) – kPa (in. water) 0.12 (0.48) 3426 (120988) 3426 (12098) 3426 (12098) 3426 (12098) 3426 (12098) 3426 (12098) 3426 (12098) 3426 (12098) 3426 (12098) 3426 (12098) 3426 (12098) 3426 (12098) 4232 (1208)	50% load with fan – L/hr (gal/hr)	561.0	(148.2)	561.0	(148.2)	515.0	(136.0)
Radiator air flow restriction (system)	25% load with fan – L/hr (gal/hr)	342.9	(90.6)	342.9	(90.6)	317.1	(83.8)
Real (in. water) Real (in. w	Cooling System						
Engine coolant capacity – L (gal)	, ,	0.12	(0.48)	0.12	(0.48)	0.12	(0.48)
Radiator coolant capacity – L (gal)	Radiator air flow – m³/min (cfm)	3426	(120988)	3426	(120988)	3426	(120988)
Total coolant capacity - L (gal) 1285 (339.5)	Engine coolant capacity – L (gal)	440.0	(116.2)	440.0	(116.2)	440.0	(116.2)
Inlet Air Combustion air inlet flow rate — m³/min (cfm) 311.7 (11006.6) 311.7 (11006.6) 291.6 (10298.0)	Radiator coolant capacity – L (gal)	845.0	(223.2)	845.0	(223.2)	845.0	(223.2)
Exhaust System	Total coolant capacity – L (gal)	1285	(339.5)	1285	(339.5)	1285	(339.5)
Exhaust System Exhaust stack gas temperature – °C (°F)	Inlet Air						
Exhaust stack gas temperature – °C (°F)	Combustion air inlet flow rate – m³/min (cfm)	311.7	(11006.6)	311.7	(11006.6)	291.6	(10298.0)
Exhaust gas flow rate — m³/min (cfm) 790.1 (27899.2) 790.1 (27899.2) 729.5 (25757.6) Exhaust system backpressure (maximum allowable) — kPa (in. water) 6.7 (27.0) 6.7 (27.0) 6.7 (27.0) Heat Rejection Heat rejection to jacket water — kW (Btu/min) 1884 (107135) 1884 (107135) 1676 (95336) Heat rejection to exhaust (total) — kW (Btu/min) 3477 (197713) 3477 (197713) 3186 (181182) Heat rejection to aftercooler — kW (Btu/min) 374 (21258) 374 (21258) 288 (16392) Heat rejection to atmosphere from engine — kW (Btu/min) 188 (10697) 188 (10697) 171 (9725) Emissions* (Nominal) NOx mg/Nm³ (g/hp-h) 2943.4 (6.03) 2943.4 (6.03) 2729.6 (5.70) CO mg/Nm³ (g/hp-h) 16.2 (0.04) 16.2 (0.04) 16.9 (0.05) PM mg/Nm³ (g/hp-h) 15.5 (0.04) 15.5 (0.04) 16.7 (0.04) Emissions* (Potential Site Variation) NOx mg/Nm³ (g/hp-h) 255.7 (0.63) 255.7 (0.63) 333.9 (0.79) HC mg/Nm³ (g/hp-h) 21.5 (0.06) 21.5 (0.06) 22.5 (0.06)	Exhaust System						
Exhaust system backpressure (maximum allowable) – kPa (in. water) Heat Rejection Heat rejection to jacket water – kW (Btu/min) 1884 (107135) 1884 (107135) 1676 (95336) Heat rejection to exhaust (total) – kW (Btu/min) 3477 (197713) 3477 (197713) 3186 (181182) Heat rejection to aftercooler – kW (Btu/min) 374 (21258) 374 (21258) 288 (16392) Heat rejection to atmosphere from engine – kW (Btu/min) 188 (10697) 188 (10697) 171 (9725) Emissions* (Nominal) NOx mg/Nm³ (g/hp-h) 2943.4 (6.03) 2943.4 (6.03) 2729.6 (5.70) CO mg/Nm³ (g/hp-h) 16.2 (0.04) 16.2 (0.04) 16.9 (0.05) PM mg/Nm³ (g/hp-h) 15.5 (0.04) 15.5 (0.04) 16.7 (0.04) Emissions* (Potential Site Variation) NOx mg/Nm³ (g/hp-h) 3532.0 (7.23) 3532.0 (7.23) 3275.6 (6.84) CO mg/Nm³ (g/hp-h) 255.7 (0.63) 255.7 (0.63) 333.9 (0.79) HC mg/Nm³ (g/hp-h) 21.5 (0.06) 21.5 (0.06) 22.5 (0.06)	Exhaust stack gas temperature – °C (°F)	461.6	(862.8)	461.6	(862.8)	455.2	(851.4)
Heat Rejection Heat rejection to jacket water - kW (Btu/min) 1884 (107135) 1884 (107135) 1676 (95336) Heat rejection to exhaust (total) - kW (Btu/min) 3477 (197713) 3477 (197713) 3186 (181182) Heat rejection to aftercooler - kW (Btu/min) 374 (21258) 374 (21258) 288 (16392) Heat rejection to atmosphere from engine - kW (Btu/min) 197 (11211) 197 (11211) 189 (10735) Heat rejection from alternator - kW (Btu/min) 188 (10697) 188 (10697) 171 (9725) Emissions* (Nominal)	Exhaust gas flow rate – m³/min (cfm)	790.1	(27899.2)	790.1	(27899.2)	729.5	(25757.6)
Heat rejection to jacket water – kW (Btu/min) 1884 (107135) 1884 (107135) 1676 (95336) Heat rejection to exhaust (total) – kW (Btu/min) 3477 (197713) 3477 (197713) 3186 (181182) Heat rejection to aftercooler – kW (Btu/min) 374 (21258) 374 (21258) 288 (16392) Heat rejection to atmosphere from engine – kW (Btu/min) 197 (11211) 197 (11211) 189 (10735) Heat rejection from alternator – kW (Btu/min) 188 (10697) 188 (10697) 171 (9725) Emissions* (Nominal)	, ,	6.7	(27.0)	6.7	(27.0)	6.7	(27.0)
Heat rejection to exhaust (total) – kW (Btu/min) 3477 (197713) 3477 (197713) 3186 (181182) Heat rejection to aftercooler – kW (Btu/min) 374 (21258) 374 (21258) 288 (16392) Heat rejection to atmosphere from engine – kW (Btu/min) 197 (11211) 197 (11211) 189 (10735) Heat rejection from alternator – kW (Btu/min) 188 (10697) 188 (10697) 171 (9725) Emissions* (Nominal) 2943.4 (6.03) 2943.4 (6.03) 2729.6 (5.70) CO mg/Nm³ (g/hp-h) 142.1 (0.35) 142.1 (0.35) 185.5 (0.44) HC mg/Nm³ (g/hp-h) 16.2 (0.04) 16.2 (0.04) 16.9 (0.05) PM mg/Nm³ (g/hp-h) 15.5 (0.04) 15.5 (0.04) 16.7 (0.04) Emissions* (Potential Site Variation) 3532.0 (7.23) 3532.0 (7.23) 3275.6 (6.84) CO mg/Nm³ (g/hp-h) 255.7 (0.63) 255.7 (0.63) 333.9 (0.79) HC mg/Nm³ (g/hp-h) 21.5 (0.06) 21.5 (0.06) 22.5 (0.06)	Heat Rejection						
Heat rejection to aftercooler – kW (Btu/min) 374 (21258) 374 (21258) 288 (16392) Heat rejection to atmosphere from engine – kW (Btu/min) 197 (11211) 197 (11211) 189 (10735) Heat rejection from alternator – kW (Btu/min) 188 (10697) 188 (10697) 171 (9725) Emissions* (Nominal) 2943.4 (6.03) 2943.4 (6.03) 2729.6 (5.70) CO mg/Nm³ (g/hp-h) 142.1 (0.35) 142.1 (0.35) 185.5 (0.44) HC mg/Nm³ (g/hp-h) 16.2 (0.04) 16.2 (0.04) 16.9 (0.05) PM mg/Nm³ (g/hp-h) 15.5 (0.04) 15.5 (0.04) 16.7 (0.04) Emissions* (Potential Site Variation) NOx mg/Nm³ (g/hp-h) 3532.0 (7.23) 3532.0 (7.23) 3275.6 (6.84) CO mg/Nm³ (g/hp-h) 255.7 (0.63) 255.7 (0.63) 333.9 (0.79) HC mg/Nm³ (g/hp-h) 21.5 (0.06) 21.5 (0.06) 22.5 (0.06)	Heat rejection to jacket water – kW (Btu/min)	1884	(107135)	1884	(107135)	1676	(95336)
Heat rejection to atmosphere from engine – kW (Btu/min) 197 (11211) 197 (11211) 189 (10735) Heat rejection from alternator – kW (Btu/min) 188 (10697) 188 (10697) 171 (9725) Emissions* (Nominal) Emissions* (Nominal) NOx mg/Nm³ (g/hp-h) 2943.4 (6.03) 2943.4 (6.03) 2729.6 (5.70) CO mg/Nm³ (g/hp-h) 142.1 (0.35) 142.1 (0.35) 185.5 (0.44) HC mg/Nm³ (g/hp-h) 15.5 (0.04) 16.2 (0.04) 16.9 (0.05) PM mg/Nm³ (g/hp-h) 15.5 (0.04) 15.5 (0.04) 16.7 (0.04) Emissions* (Potential Site Variation) 3532.0 (7.23) 3532.0 (7.23) 3275.6 (6.84) CO mg/Nm³ (g/hp-h) 255.7 (0.63) 255.7 (0.63) 333.9 (0.79) HC mg/Nm³ (g/hp-h) 21.5 (0.06) 21.5 (0.06) 22.5 (0.06)	Heat rejection to exhaust (total) – kW (Btu/min)	3477	(197713)	3477	(197713)	3186	(181182)
kW (Btu/min) 197 (11211) 197 (11211) 189 (10/35) Heat rejection from alternator – kW (Btu/min) 188 (10697) 188 (10697) 171 (9725) Emissions* (Nominal) NOx mg/Nm³ (g/hp-h) 2943.4 (6.03) 2943.4 (6.03) 2729.6 (5.70) CO mg/Nm³ (g/hp-h) 142.1 (0.35) 142.1 (0.35) 185.5 (0.44) HC mg/Nm³ (g/hp-h) 16.2 (0.04) 16.2 (0.04) 16.9 (0.05) PM mg/Nm³ (g/hp-h) 15.5 (0.04) 15.5 (0.04) 16.7 (0.04) Emissions* (Potential Site Variation) NOx mg/Nm³ (g/hp-h) 3532.0 (7.23) 3532.0 (7.23) 3275.6 (6.84) CO mg/Nm³ (g/hp-h) 255.7 (0.63) 255.7 (0.63) 333.9 (0.79) HC mg/Nm³ (g/hp-h) 21.5 (0.06) 21.5 (0.06) 22.5 (0.06)	Heat rejection to aftercooler – kW (Btu/min)	374	(21258)	374	(21258)	288	(16392)
Emissions* (Nominal) NOx mg/Nm³ (g/hp-h) 2943.4 (6.03) 2943.4 (6.03) 2729.6 (5.70) CO mg/Nm³ (g/hp-h) 142.1 (0.35) 142.1 (0.35) 185.5 (0.44) HC mg/Nm³ (g/hp-h) 16.2 (0.04) 16.2 (0.04) 16.9 (0.05) PM mg/Nm³ (g/hp-h) 15.5 (0.04) 15.5 (0.04) 16.7 (0.04) Emissions* (Potential Site Variation) NOx mg/Nm³ (g/hp-h) 3532.0 (7.23) 3532.0 (7.23) 3275.6 (6.84) CO mg/Nm³ (g/hp-h) 255.7 (0.63) 255.7 (0.63) 333.9 (0.79) HC mg/Nm³ (g/hp-h) 21.5 (0.06) 21.5 (0.06) 22.5 (0.06)	, ,	197	(11211)	197	(11211)	189	(10735)
NOx mg/Nm³ (g/hp-h) 2943.4 (6.03) 2943.4 (6.03) 2729.6 (5.70) CO mg/Nm³ (g/hp-h) 142.1 (0.35) 142.1 (0.35) 185.5 (0.44) HC mg/Nm³ (g/hp-h) 16.2 (0.04) 16.2 (0.04) 16.9 (0.05) PM mg/Nm³ (g/hp-h) 15.5 (0.04) 15.5 (0.04) 16.7 (0.04) Emissions* (Potential Site Variation) NOx mg/Nm³ (g/hp-h) 3532.0 (7.23) 3532.0 (7.23) 3275.6 (6.84) CO mg/Nm³ (g/hp-h) 255.7 (0.63) 255.7 (0.63) 333.9 (0.79) HC mg/Nm³ (g/hp-h) 21.5 (0.06) 21.5 (0.06) 22.5 (0.06)		188	(10697)	188	(10697)	171	(9725)
CO mg/Nm³ (g/hp-h) 142.1 (0.35) 142.1 (0.35) 185.5 (0.44) HC mg/Nm³ (g/hp-h) 16.2 (0.04) 16.2 (0.04) 16.9 (0.05) PM mg/Nm³ (g/hp-h) 15.5 (0.04) 15.5 (0.04) 16.7 (0.04) Emissions* (Potential Site Variation) NOx mg/Nm³ (g/hp-h) 3532.0 (7.23) 3532.0 (7.23) 3275.6 (6.84) CO mg/Nm³ (g/hp-h) 255.7 (0.63) 255.7 (0.63) 333.9 (0.79) HC mg/Nm³ (g/hp-h) 21.5 (0.06) 21.5 (0.06) 22.5 (0.06)	Emissions* (Nominal)						
HC mg/Nm³ (g/hp-h) 16.2 (0.04) 16.2 (0.04) 16.9 (0.05) PM mg/Nm³ (g/hp-h) 15.5 (0.04) 15.5 (0.04) 16.7 (0.04) Emissions* (Potential Site Variation) NOx mg/Nm³ (g/hp-h) 3532.0 (7.23) 3532.0 (7.23) 3275.6 (6.84) CO mg/Nm³ (g/hp-h) 255.7 (0.63) 255.7 (0.63) 333.9 (0.79) HC mg/Nm³ (g/hp-h) 21.5 (0.06) 21.5 (0.06) 22.5 (0.06)	NOx mg/Nm³ (g/hp-h)	2943.4	(6.03)	2943.4	(6.03)	2729.6	(5.70)
PM mg/Nm³ (g/hp-h) 15.5 (0.04) 15.5 (0.04) 16.7 (0.04) Emissions* (Potential Site Variation) NOx mg/Nm³ (g/hp-h) 3532.0 (7.23) 3532.0 (7.23) 3275.6 (6.84) CO mg/Nm³ (g/hp-h) 255.7 (0.63) 255.7 (0.63) 333.9 (0.79) HC mg/Nm³ (g/hp-h) 21.5 (0.06) 21.5 (0.06) 22.5 (0.06)	CO mg/Nm³ (g/hp-h)	142.1	(0.35)	142.1	(0.35)	185.5	(0.44)
Emissions* (Potential Site Variation) NOx mg/Nm³ (g/hp-h) 3532.0 (7.23) 3532.0 (7.23) 3275.6 (6.84) CO mg/Nm³ (g/hp-h) 255.7 (0.63) 255.7 (0.63) 333.9 (0.79) HC mg/Nm³ (g/hp-h) 21.5 (0.06) 21.5 (0.06) 22.5 (0.06)	HC mg/Nm³ (g/hp-h)	16.2	(0.04)	16.2	(0.04)	16.9	(0.05)
NOx mg/Nm³ (g/hp-h) 3532.0 (7.23) 3532.0 (7.23) 3275.6 (6.84) CO mg/Nm³ (g/hp-h) 255.7 (0.63) 255.7 (0.63) 333.9 (0.79) HC mg/Nm³ (g/hp-h) 21.5 (0.06) 21.5 (0.06) 22.5 (0.06)	PM mg/Nm³ (g/hp-h)	15.5	(0.04)	15.5	(0.04)	16.7	(0.04)
CO mg/Nm³ (g/hp-h) 255.7 (0.63) 255.7 (0.63) 333.9 (0.79) HC mg/Nm³ (g/hp-h) 21.5 (0.06) 21.5 (0.06) 22.5 (0.06)	Emissions* (Potential Site Variation)						
HC mg/Nm³ (g/hp-h) 21.5 (0.06) 21.5 (0.06) 22.5 (0.06)	NOx mg/Nm³ (g/hp-h)	3532.0	(7.23)	3532.0	(7.23)	3275.6	(6.84)
	CO mg/Nm³ (g/hp-h)	255.7	(0.63)	255.7	(0.63)	333.9	(0.79)
PM mg/Nm³ (g/hp-h) 21.7 (0.06) 21.7 (0.06) 23.3 (0.06)	HC mg/Nm³ (g/hp-h)	21.5	(0.06)	21.5	(0.06)	22.5	(0.06)
	PM mg/Nm³ (g/hp-h)	21.7	(0.06)	21.7	(0.06)	23.3	(0.06)

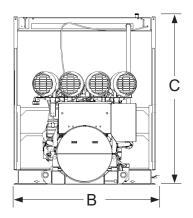
 $^{^*\}mbox{mg/Nm}^3$ levels are corrected to 5% O2. Contact your local Cat dealer for further information.

LEHE20132-05 Page 3 of 4



Weights and Dimensions





Dim "A"	Dim "B"	Dim "C"	Dry Weight
mm (in)	mm (in)	mm (in)	kg (lb)
8409 (331.1)	3264 (128.5)	3828 (150.7)	29 870 (65,850)

Note: For reference only. Do not use for installation design. Contact your local Cat dealer for precise weights and dimensions.

Ratings Definitions

Standby

Output available with varying load for the duration of the interruption of the normal source power. Average power output is 70% of the standby rated ekW. Typical operation is 200 hours per year, with maximum expected usage of 500 hours per year.

Mission Critical

Output available with varying load for the duration of the interruption of the normal source power. Average power output is 85% of the mission critical rated ekW. Typical peak demand up to 100% of rated power for up to 5% of the operating time. Typical operation is 200 hours per year, with maximum expected usage of 500 hours per year.

Prime

Output available with varying load for an unlimited time. Average power output is 70% of the prime power rating. Typical peak demand is 100% of prime rated ekW with 10% overload capability for emergency use for a maximum of 1 hour in 12. Overload operation cannot exceed 25 hours per year.

Applicable Codes and Standards

AS 1359, ULC 2200 3rd edition, UL 489, UL 869A, IBC, IEC 60034-1, ISO 3046, ISO 8528, NEMA MG1-22, NEMA MG1-33, 2014/35/EU, 2006/42/EC, 2014/30/EU and facilitates compliance to NFPA 37, NFPA 70, NFPA 99, NFPA 110.

Note: Codes may not be available in all model configurations. Please consult your local Cat dealer for availability.

Data Center Applications

- All ratings Tier III/Tier IV compliant per Uptime Institute requirements.
- All ratings ANSI/TIA-942 compliant for Rated-1 through Rated-4 data centers.

Fuel Rates

Fuel consumption reported in accordance with ISO 3046-1, based on fuel oil of 35° API [16°C (60°F)] gravity having an LHV of 42,780 kJ/kg (18,390 Btu/lb) when used at 15°C (59°F) and weighing 850 g/liter (7.0936 lbs/U.S. gal.) All fuel consumption values refer to rated engine power.

www.cat.com/electricpower
©2023 Caterpillar
All rights reserved.

Materials and specifications are subject to change without notice. The International System of Units (SI) is used in this publication.

used herein, are trademarks of Caterpillar and may not be used without permission.