



Image shown may not reflect actual configuration

Standby 175 kW 219 kVA – 60 Hz

- UL2200:** Evaluated by ETL to UL Standard for Safety UL2200
- CSA:** Designed in accordance to CSA22.2 standards
- NFPA:** Facilitates compliance with NFPA110
- Type 10:** Product was tested to NFPA110 Type 10

BENEFITS & FEATURES

CAT® GENERATOR SET PACKAGE

Cat natural gas fuel generator sets deliver dependable, clean, economical power even in the most demanding conditions. Cat generator sets are available in a wide range of configurations with optional equipment. Cat generator sets are designed, engineered, and manufactured for optimal performance. All major components are tested individually. Once assembled, the entire unit is tested at and above 100% of rated load for safety and operation. The generator set facilitates compliance with NFPA 110 and meets ISO 8528-5 requirements for transient response.

These complete, ready-to-run packages have another distinct advantage. They all come with the comprehensive service and support of Cat® dealers – beginning with prompt delivery and ongoing support throughout the life of the generator set.

ENGINES

The spark-ignited engines features include Cat air filter (dry, disposable), radiator outlet duct adapter, oil filters, flexible exhaust connection (open generator sets), and are factory filled with Caterpillar approved oil and extended life coolant.

COOLING SYSTEM

The cooling system is designed to operate in 50°C/122°F ambient temperatures. It has been designed and tested to ensure proper generator set cooling, and includes the radiator, fan, belts, and all guarding installed as standard. Contact your Cat dealer for specific ambient and altitude capabilities.

ALTERNATOR

Full load capacity, three-phase, 12 lead, and reconnectable alternator built for extended, dependable life. Features include permanent magnet excitation, amortisseur winding, skewed stator, voltage adjustment through the EMCP controller, Class H winding insulation, and 2/3 pitch incorporated.

EMCP CONTROL PANELS

The Cat EMCP 4.2B control panel is fully equipped with all necessary engine gauges, AC meters, and warnings, providing expanded generator set protection and monitoring. Additional monitoring and expansion modules provide control and protection for critical installations and applications.

SPECIFICATIONS

ENGINE SPECIFICATIONS

Engine Model	14.2 L, In-line 6, 4-cycle
Bore x Stroke	135 mm x 165 mm (5.31 in x 6.50 in)
Displacement	14.17 L (864.71 in ³)
Compression Ratio	9.5:1
Aspiration	Turbocharged-Aftercooled
Fuel System	Carburetor, Down Draft
Governor	Electronic
Fuel Type	Natural Gas
Emission Certifications	U.S. EPA Certified
Rated Engine Speed	1800 rpm

GENERATOR SET SPECIFICATIONS

Alternator Design	Sealed Bearings, Brushless, IP21
Stator	2/3 Pitch
Poles	4
Available Voltages	120/240 VAC (1-phase) 120/208, 120/240, 277/480, 346/600 VAC (3-phase)
Frequency	60 Hz
Alternator Insulation	Class H
Voltage Regulator Type	Full Digital
Available Excitation Types	Permanent Magnet Excitation
Steady State Regulation Accuracy	± 0.25%
Harmonic Distortion	<5%

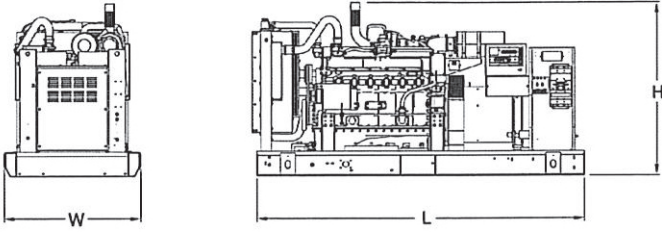
STANDARD EQUIPMENT

Engine System	General: <ul style="list-style-type: none"> • Oil drain extension • Air cleaner • Fan guard • Stainless steel flexible exhaust connection • Critical exhaust silencer • Factory-filled oil • Radiator duct adapter (open set only)
	Fuel System: <ul style="list-style-type: none"> • Primary and secondary fuel shutoff • Flexible fuel line – NPT connection
	Cooling System: <ul style="list-style-type: none"> • Closed coolant recovery system • UV/ozone resistant hoses • Factory-installed radiator • Radiator drain extension • 50/50 ethylene glycol antifreeze
	Engine Electrical System: <ul style="list-style-type: none"> • Battery charging alternator • Battery cables • Battery tray • Solenoid activated starter motor • Rubber-booted engine electrical connections
Alternator System	Class H insulation material
	2/3 pitch
	Skewed stator
	Permanent magnet excitation
	Sealed bearings
	Amortisseur winding
Generator Set	Full-load capacity alternator
	Internal generator set vibration isolation
	Separation of circuits – high/low voltage
	Separation of circuits – multiple breakers
	Wrapped exhaust piping
	Standard factory testing
	2-year limited warranty (standby rated units)
	1-year warranty (prime rated units)
Enclosure (if selected)	Silencer mounted in the discharge hood (enclosed only)
	Rust-proof fasteners with nylon washers to protect finish
	High performance sound-absorbing material
	Gasketed doors
	Stamped air-intake louvers
	Air discharge hoods for radiator-upward pointing
	Stainless steel lift-off door hinges
Stainless steel lockable handles	

CONFIGURABLE OPTIONS

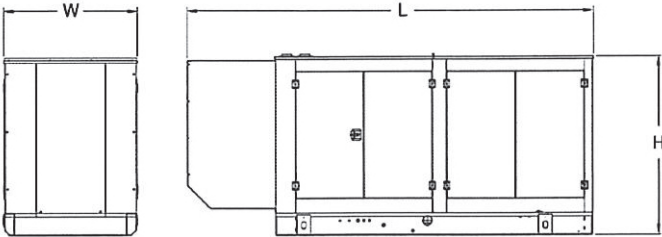
Engine System	General: <ul style="list-style-type: none"> • Engine block heater • Oil heater • Air filter restriction indicator • Stone guard (open set only)
	Engine Electrical System: <ul style="list-style-type: none"> • 20A UL battery charger • Battery warmer
Alternator System	Alternator upsizing
	Anti-condensation heater
	Tropical coating
Generator Set	Extended factory testing (3-phase only)
	8-position load center
	2-year comprehensive extended warranty
	5-year limited extended warranty
Circuit Breaker Options	5-year comprehensive extended warranty
	Main line circuit breaker
	2nd main line circuit breaker
	Shunt trip and auxiliary contact
	Electronic trip breakers
Enclosure	Standard enclosure
	Level 1 sound attenuation
	Level 2 sound attenuation
	Level 3 sound attenuation
	Steel enclosure
	Aluminum enclosure
	150 mph wind kit
	12 VDC enclosure lighting kit
	120 VAC enclosure lighting kit
	AC/DC enclosure lighting kit
Door alarm switch	
Control System	16-light remote annunciator
	Oil temperature sender with indication alarm
	Remote E-stop (break glass-type, surface mount)
	Remote E-stop (red mushroom-type, surface mount)
	Remote E-stop (red mushroom-type, flush mount)
	Remote communication – modem
	Remote communication – ethernet
	10A run relay
Ground fault indication and protection functions	

WEIGHTS & DIMENSIONS*



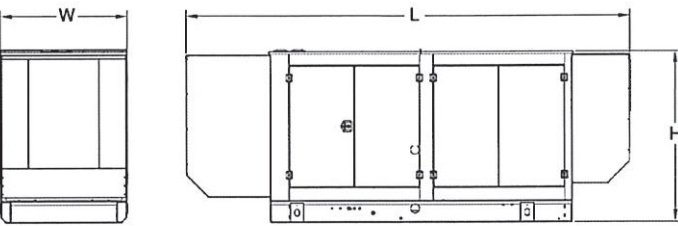
OPEN SET (Includes Exhaust Flex)

L x W x H in (mm)	127.95 (3250) x 52.93 (1344.5) x 67.37 (1711.2)
Weight lbs (kg)	5756 (2610.9)
Sound Level (dBA*)	82.5



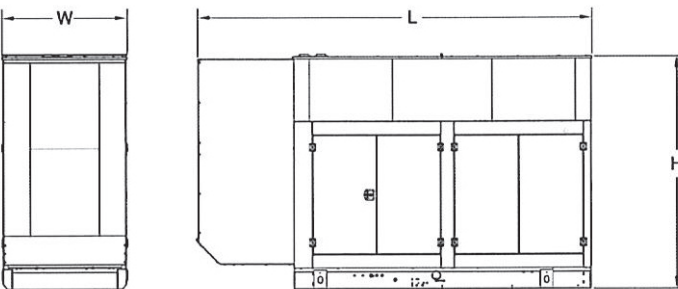
STANDARD ENCLOSURE

L x W x H in (mm)	153.89 (3909) x 52.73 (1339.3) x 69.67 (1769.6)
Weight lbs (kg)	Steel: 6577 (2983) Aluminum: 6035 (2738)
Sound Level (dBA*)	79.9



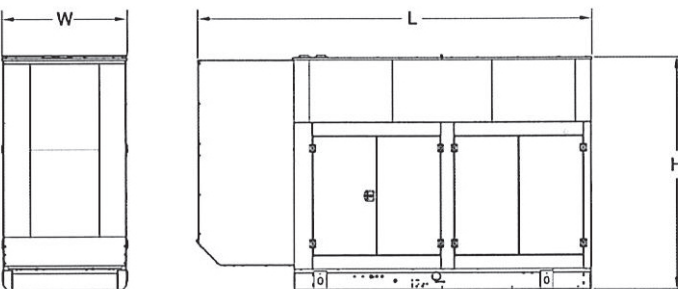
LEVEL 1 ACOUSTIC ENCLOSURE

L x W x H in (mm)	180.11 (4574.7) x 52.73 (1339.3) x 69.67 (1769.6)
Weight lbs (kg)	Steel: 6990 (3171) Aluminum: 6176 (2801)
Sound Level (dBA*)	75.7



LEVEL 2 ACOUSTIC ENCLOSURE

L x W x H in (mm)	154.45 (3922.9) x 53.96 (1370.6) x 93.40 (2372.3)
Weight lbs (kg)	Steel: 7236 (3282) Aluminum: 6259 (2839)
Sound Level (dBA*)	70.8



LEVEL 3 ACOUSTIC ENCLOSURE

L x W x H in (mm)	207.2 (5264) x 63.7 (1618) x 128.90 (3275)
Weight lbs (kg)	Steel: 10602 (4809) Aluminum: 9638 (4372)
Sound Level (dBA*)	70.1

*All measurements are approximate and for estimation purposes only. Sound levels measured at 23 ft (7 m) and do not account for ambient site conditions.

Cat® DG175 GC SPARK-IGNITED GENERATOR SETS

EMCP 4.2B CONTROL PANEL FEATURES:



- Control-panel-provided power metering and protective relaying along with engine and generator control and monitoring.
- Embedded with programmable logic controller (PLC) functionality, which enables the generator set to monitor and control other equipment within the operation.
- Includes inputs to collect supplementary data for the PLC to process when operating the generator set and activating external equipment. On a remote location without the ability to supply power to the battery charger, the PLC would likewise monitor the battery voltage to start and stop the machine to preserve battery, ensuring the unit is ready to run when needed.

DEFINITIONS AND CONDITIONS

Applicable Codes and Standards: CSA C22.2 No 100-04, UL 489, UL 869, UL 2200, NFPA 37, NFPA 70, NFPA 99, NFPA 110, IBC, IEC60034-1, ISO3046, ISO8528, NEMA MG 1-22, NEMA MG 1-33.

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 power rating. Typical operation is 200 hours per year, with maximum expected usage of 500 hours per year.

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.

WORLDWIDE PRODUCT SUPPORT

Cat dealers provide extensive post-sale support including maintenance and repair agreements. Cat dealers have over 1,800 dealer branch stores operating in 200 countries. The Cat S•O•SSM program effectively detects internal engine component condition, even the presence of unwanted fluids and combustion by-products.

BUILT FOR IT.™

www.cat.com/electricpower

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Deration: For power deration rates reference, please consult Cat LEHE1699-00.

Ratings are based on SAE J1349 standard conditions. These ratings also apply at ISO3046 standard conditions.

Fuel Rates are based on heat value for natural gas of 1015 BTU/SCF @77°F (25°C) and 328 ft (100 m) above sea level. Additional ratings may be available for specific customer requirements, contact your Cat representative for details.

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