



Standby 110 kW, 137 kVA  
 Prime 100 kW, 125 kVA  
 U.S. EPA Tier 4 Final  
 60 Hz  
 1800 RPM

Image shown may not reflect actual configuration

### Specifications

Generator	Frequency	Voltage	Standby kW (kVA)	Prime kW (kVA)	Phase	Amp (A)
Standard	60 Hz	480/277V	110 (137)	100 (125)	3-phase	150.35
	60 Hz	208/120V	110 (137)	100 (125)	3-phase	346.97
	60 Hz	240/120V	65 (65)	65 (65)	1-phase	270.83
Optional	60 Hz	600V/349V	110 (137)	100 (125)	3-phase	120.28
	60 Hz	480V/277V	110 (137)	100 (125)	3-phase	150.35
	60 Hz	208/120V	110 (137)	100 (125)	3-phase	346.97
	60 Hz	240/120V	64 (64)	64 (64)	1-phase	266.67

Cat® C4.4 Diesel Engine	Metric	Imperial (English)
Configuration	I-4, 4-Stroke - Water Cooled Diesel	
Bore	105 mm	4.13 in
Stroke	127 mm	5 in
Displacement	4.4 L	268.5 in <sup>3</sup>
Aspiration	Turbocharged-Aftercooled	
Compression Ratio	16.5:1	
Engine rpm	1800	
Governor Type	ADEM™ A4	

## Features & Benefits

### Fuel/Emissions Strategy

- Meets U.S. EPA Tier 4 Final emission standards and CARB certified for non-road mobile applications at all 60 Hz ratings

### Design Criteria

- Meets ISO 8528 transient response and linear vibration
- Canadian Standards Association (CSA) Certified

### Single-source Supplier

- Package is factory designed and production tested
- Manufactured in ISO 9001:2000 certified Caterpillar facility

### Cat C4.4 Diesel Engine

- Four-stroke diesel engine with ACERT technology combined with electronic engine controller offers consistent performance and excellent fuel economy
- Series turbocharged with smart wastegate
- Low ownership costs enabled by a 3,000 hrs service interval for multi-vee belts and service free tappets
- Oil and fuel filter change intervals: 500 hrs

### Cat Clean Emissions Module (CEM)

- Engine mounted Aftertreatment module contains of Diesel Oxidation Catalyst (DOC) and Selective Catalytic Reduction (SCR)
- Aftertreatment remains invisible to the equipment operator when in use
- No requirement for ash servicing
- Service free for life of the engine

### Diesel Exhaust Fluid (DEF) System

- DEF tank provides more than 24 hrs run time @ 75% load.
- Electrically heated DEF lines

### Cat Generator

- Matched to the performance and output characteristics of Cat engines
- Integrated voltage selector switch
- UL 1446 Recognized Class H insulation

### Automatic Voltage Regulator (AVR)

- D350 excitation module
- Three-phase sensing
- Adjustable volts-per-hertz regulation
- Provides precise control, excellent block loading, and constant voltage in the normal operating range

### XQCP Control Panel

- Electronic control panel provides power metering, protective relaying, engine, and generator parameter viewing, and expanded AC metering
- Four lines back-lit LCD text display
- Simple, user-friendly interface and navigation
- Integrates with the Automatic Voltage Regulator (AVR) to provide precise control, excellent block loading, and constant voltage

### Sound-attenuated Enclosure

- Provides excellent weather protection and allows for a quiet package operation with less than 66 dBA sound levels at full load, while offering excellent service access with multiple doors and access panels
- Galvanized sheet steel body panels for improved corrosion resistance
- Coolant and oil drains along with auxiliary fuel connections are all conveniently located at one location on the exterior of the enclosure for easy access
- Single point lifting

### Fuel System

- Provides 24-hour runtime @ 75% prime
- Meets UL 142, ULC 601
- OPTIONAL: Meets Transport Canada (UN31A) requirements with factory-installed, optional vent kit

### Reduced Environmental Impact

- 110% spill containment of onboard engine fluids

### Cooling System

- Provides 50°C ambient capability @ full rating
- Coolant low-level shutdown switch
- Coolant recovery system for easy top off

### Charging System

- Charging alternator; 12V-100A, heavy duty with integral regulator and belt guards
- 10-Watt Solar maintainer for batteries

### Asset Monitoring and Management

- Product Link™ Generation (PLG) hardware provides two-way communication for remote control and equipment monitoring via cellular network
- Customer-defined, equipment-based, real-time status updates and alerts
- Flexible and customer-configurable user interface
- GPS provides asset location and geo-fencing

## Factory-installed Standard Equipment

### Engine

- Cat C4.4 heavy-duty diesel engine meets Tier 4 Final emission standards

### Engine Air Inlet

- Heavy-duty air cleaner with dust cup and service indicator
- Turbocharger and air-to-air after cooler

### Cat CEM

- Engine mounted CEM
- Robust operation in cold weather and low loads
- Includes DOC and SCR

### DEF System

- 8-gal (30 L) plastic DEF tank provides capacity to meet or exceed fuel tank runtime at any given load.
- DEF tank is equipped with integrated level sensor and heating element to aid in cold weather operation.
- Electrically heated DEF lines
- DEF level gauge located on the control panel
- Equipped with low and critically-low level alarms and a critically-low shutdown

### Fuel System

- 150-gal (568 L) double-wall fuel tank
- Fuel fill located in an isolated enclosed space away from the engine compartment with a lockable door
- Designed to meet UL 142, ULC 601
- Provides 24-hour runtime @ 75% prime
- Engine mounted electric priming pump
- Auxiliary connections for customer-supplied fuel transfer system with 3-way fuel transfer valve
- Engine mounted primary fuel filter with integral water separator
- Engine-mounted secondary fuel filter

### Cooling System

- Provides 50°C ambient capability @ full rating
- Vertically mounted radiator with engine mounted cooling fan
- 50/50 Extended Life Coolant
- Coolant low-level shutdown switch
- Coolant recovery system
- Coolant drain line with valve

### Mounting System

- Engine, generator and radiator soft mounted to the heavy duty, fabricated steel base frame

### Sound-attenuated Enclosure

- Provides excellent weather protection
- Offers a quiet package with 66 dBA sound levels
- Rugged, corrosion-resistant construction:
  - Galvanealed, sheet steel body panels with zinc phosphate pre-treatment prior to polyester powder coating
- Excellent access for service and maintenance:
  - Two doors on each side of the enclosure provides clear access to routine service and maintenance needs.
  - Two rear doors provide access to power distribution and control panel access
  - Separate door for DEF and Diesel fill access
  - Access panel on the front provides access to clean radiator cores and to service DEF tank.
  - Lube oil drain, coolant drain, external fuel supply and return lines are all piped to exterior of the enclosure and located on one panel for easy access.
- Security and safety features:
  - Pad lockable latches on all access doors
  - Exterior emergency stop (E-stop) button

### Lube System

- Open crankcase breather with filter
- Oil drain line with internal valve routed to connection point accessible from exterior
- 500-hour engine oil change interval

### Starting System

- Single electric starting motor, 12VDC
- Single 12V (850 CCA) maintenance-free battery with disconnect switch, battery rack, and cables
- 120V single-phase block heater

### Quality

- Factory testing of standard generator set and complete power module
- UL, NEMA, ISO, and IEEE standards
- O&M manuals
- CSA Certified
- Full manufacturer's warranty

### Shore Power

- One 110V shore power connection for powering engine block heater and generator space heater (optional), battery charger (optional), and single duplex service receptacle
- Includes controls to de-energize block and generator space heaters when the engine is running



## Factory-installed Optional Equipment

### Vent Kit

- Provides necessary vents and films to upgrade the standard UL142 certified tank to meet Transport Canada (UN31A) certification

### Trailer Electric

- Two-axle trailer with Electric brakes

### Trailer Hydraulic

- Two-axle trailer with Hydraulic brakes

### Battery Charger

- 10A, 12 VDC output
- UL & CSA listed

### Hitches

- 3" Pintle OR 2-5/16" Ball

### Generator Space Heater

- 110 VAC Anti-condensation heater

### Permanent Magnet Generator (PMG)

- Adds independent source of excitation to generator

### NEMA Receptacles

- 208 Volt locking NEMA receptacles, quantity 2

### 600V Generator

- Includes 600V generator and 4-position rotary switch for easy selection of desired output
- Available voltages include:
  - 3-phase (600/347 Volt, 480/277 Volt, 208/120 Volt)
  - 1-phase (240/120 Volt)



**Technical Data**

Cat Generator	
Frame size	LC3114F
Pitch	2/3
No. of poles	4
No. of leads	12
Excitation	Self Excited
Number of bearings	Single bearing, close coupled
Insulation	Class H
Enclosure	Drip proof IP23
Alignment	Pilot shaft
Overspeed capability – % of rated	125% of rated
Voltage regulator	3-phase sensing with volts-per-hertz
Voltage regulation (adjustable to compensate for engine speed droop and line loss)	Less than ± 1/2% voltage gain
Wave form deviation	3%
Telephone Influence Factor (TIF)	Less than 50
Harmonic Distortion (THD)	Less than 5%

Cat Generator Set			
	Units	60 Hz — Standby	60 Hz — Prime
<b>Power Rating</b>	<b>kW (kVA)</b>	<b>110 (137)</b>	<b>100 (125)</b>
<b>Performance Specification</b>			
<b>Lubricating System</b>			
Oil pan capacity	L (gal)	9.4 (2.5)	9.4 (2.5)
<b>Fuel System</b>			
Fuel consumption — 100% Load	L/hr (gal/hr)	31.3 (8.27)	28.4 (7.49)
75% Load	L/hr (gal/hr)	-	20.9 (5.51)
50% Load	L/hr (gal/hr)	-	14.4 (3.80)
25% Load	L/hr (gal/hr)	-	7.5 (1.97)
Fuel tank capacity	L (gal)	568 (150)	568 (150)
Run time @ 75% rating	Hr		28
<b>DEF System</b>			
DEF consumption — 100% Load	L/hr (gal/hr)	1.2 (0.31)	0.47 (0.12)
75% Load	L/hr (gal/hr)	-	0.72 (0.19)
50% Load	L/hr (gal/hr)	-	0.39 (0.10)
25% Load	L/hr (gal/hr)	-	0.45 (0.12)
DEF tank capacity	L (gal)	30 (7.92)	30 (7.92)
Run time @ 75% rating	Hr		24
<b>Cooling System</b>			
Ambient capability	°C (°F)	55 (131)	55 (131)
Engine & radiator coolant capacity	L (gal)	18.3 (4.8)	18.3 (4.8)
<b>Noise Rating (with enclosure)</b> @ 7 meters (23 feet) @ 75% rating	dB(A)	66	65

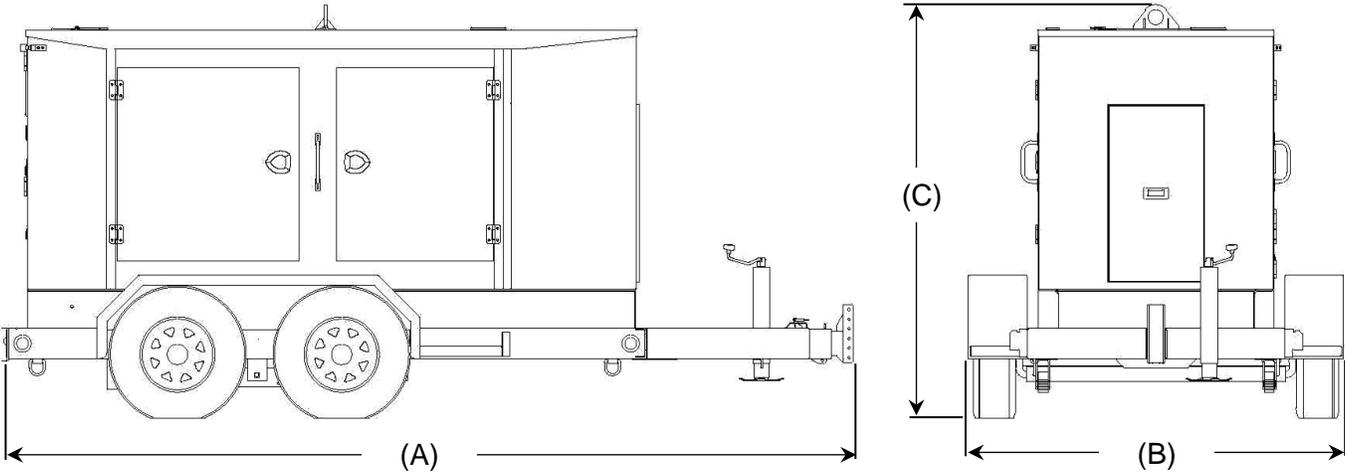


Technical Data (continued)

Dimensions and Weights					
Model	Length mm (in) (A)	Width mm (in) (B)	Height mm (in) (C)	With Lube Oil & Coolant Kg (lb.)	With all fluids Kg (lb.)
XQ125	3,261 (128.4)	1,243 (48.9)	1,856 (73)	2,372 (5,230)	2,876 (6,341)
XQ125 with trailer (electric brakes)	4,475 (176)	1,981 (78)	2,174 (85.5)	2,812 (6,200)	3,316 (7,311)
XQ125 with trailer (hydraulic brakes)	4,495 (177)	1,981 (78)	2,174 (85.5)	2,821 (6,220)	3,325 (7,331)

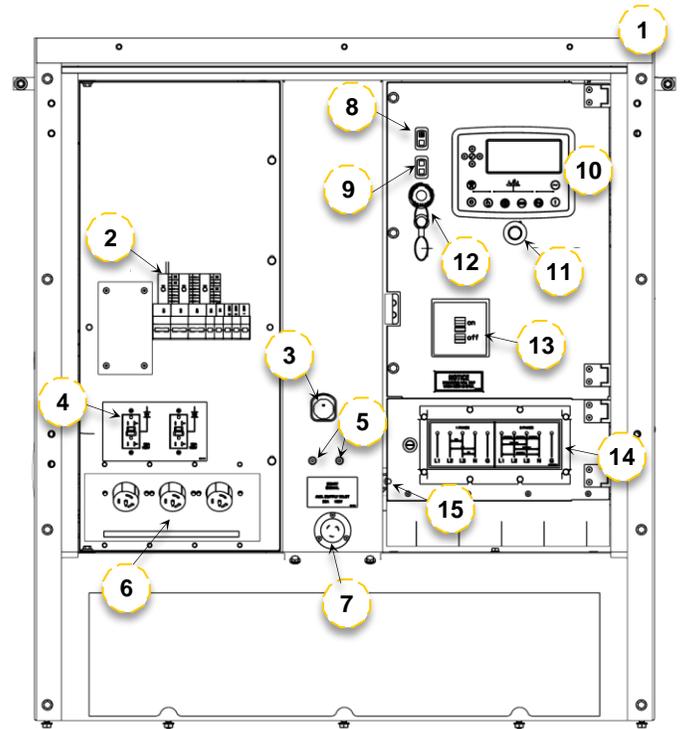
General Layout Dimensions

Dimensions in millimeters (inches).  
Shown with optional trailer.



## Control Panel and Power Distribution Layout

Item	Description												
1	Steel enclosure with hinged, lockable doors (not shown)												
2	Circuit breakers for receptacles												
3	Emergency stop												
4	2X Single-phase GFCI duplex receptacles (20A @ 120V)												
5	Two-wire remote start terminals												
6	3X Single-phase, California-style, twist-lock receptacles, 50A @ 208V phase-to-phase, 120V phase to neutral, or 240/120 single-phase when in that voltage position												
7	Single-phase, NEMA locking input receptacle, (30A @ 120V) to power block heater, battery charger and generator space heater												
8	HEST and DPF lamp												
9	Glow plug lamp	10	XQCP digital generator set controller	11	Potentiometer for voltage adjustment	12	Cat ET service tool connector	13	Generator main circuit breaker	14	Main bus connection (bus bars with 13 mm holes) behind hinged cover with safety switch	15	Breaker trip door switch
10	XQCP digital generator set controller												
11	Potentiometer for voltage adjustment												
12	Cat ET service tool connector												
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14	Main bus connection (bus bars with 13 mm holes) behind hinged cover with safety switch												
15	Breaker trip door switch												



### Ratings Definitions and Conditions

**Meets or Exceeds International Specifications:** AS1359, CSA, IEC60034-1, ISO3046, ISO8528, NEMA MG 1-33.

**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 kW with 10% overload capability for emergency use for a maximum of 1 hour in 12. Overload operation cannot exceed 25 hours per year. Prime power in accordance with ISO3046. Prime ambient shown indicate ambient temperature at 100% load which results in a coolant top tank temperature below the alarm temperature.

**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.

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

**Fuel rates** are 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 29°C (85°F) and weighing 838.9 g/liter (7.001 lbs/U.S. gal).

Additional ratings may be available for specific customer requirements, contact your Caterpillar representative for details. For information regarding low sulfur fuel and biodiesel capability, please consult your Cat dealer.

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