## Specifications

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Voltage</th>
<th>Standby kW (kVA)</th>
<th>Prime kW (kVA)</th>
<th>Speed rpm</th>
</tr>
</thead>
<tbody>
<tr>
<td>60 Hz</td>
<td>480/277V</td>
<td>110 (137)</td>
<td>100 (125)</td>
<td>1800</td>
</tr>
<tr>
<td>60 Hz</td>
<td>208/120V</td>
<td>110 (137)</td>
<td>100 (125)</td>
<td>1800</td>
</tr>
<tr>
<td>60 Hz</td>
<td>240/120V</td>
<td>65 (65)</td>
<td>65 (65)</td>
<td>1800</td>
</tr>
</tbody>
</table>

### 480V 60 Hz Rating

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Voltage</th>
<th>Standby kW (kVA)</th>
<th>Prime kW (kVA)</th>
<th>Speed rpm</th>
</tr>
</thead>
<tbody>
<tr>
<td>60 Hz</td>
<td>600V/347V</td>
<td>110 (137)</td>
<td>100 (125)</td>
<td>1800</td>
</tr>
<tr>
<td>60 Hz</td>
<td>480V/277V</td>
<td>110 (137)</td>
<td>100 (125)</td>
<td>1800</td>
</tr>
<tr>
<td>60 Hz</td>
<td>208/120V</td>
<td>110 (137)</td>
<td>100 (125)</td>
<td>1800</td>
</tr>
<tr>
<td>60 Hz</td>
<td>240/120V</td>
<td>64 (64)</td>
<td>64 (64)</td>
<td>1800</td>
</tr>
</tbody>
</table>

### 600V 60 Hz Rating (Optional)

<table>
<thead>
<tr>
<th>Configuration</th>
<th>Metric</th>
<th>Imperial (English)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cat® C4.4 ACERT™ Diesel Engine</td>
<td>I-4, 4-Stroke - Water Cooled Diesel</td>
<td></td>
</tr>
<tr>
<td>Bore</td>
<td>105 mm</td>
<td>4.13 in</td>
</tr>
<tr>
<td>Stroke</td>
<td>127 mm</td>
<td>5 in</td>
</tr>
<tr>
<td>Displacement</td>
<td>4.4 L</td>
<td>268.5 in³</td>
</tr>
<tr>
<td>Aspiration</td>
<td>Turbocharged-Aftercooled</td>
<td></td>
</tr>
<tr>
<td>Compression Ratio</td>
<td>16.5:1</td>
<td></td>
</tr>
<tr>
<td>Engine rpm</td>
<td>1800</td>
<td></td>
</tr>
<tr>
<td>Governor Type</td>
<td>ADEM™ A4</td>
<td></td>
</tr>
</tbody>
</table>
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 ACERT 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

Cat Integrated Voltage Regulator (Cat IVR)
- Three-phase sensing
- Adjustable volts-per-hertz regulation
- Provides precise control, excellent block loading, and constant voltage in the normal operating range

Cat EMCP 4.2B Control Panel
- Electronic control panel provides power metering, protective relaying, engine and generator parameter viewing, and expanded AC metering
- Graphical display (3.8 in.) denotes text alarm/event descriptions, set points, engine and generator monitoring, and is visible in all lighting conditions
- Simple, user-friendly interface and navigation
- Automatic set-point adjustment integrated with voltage selection

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
- Galvanealed 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.

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 ACERT 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

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

### Cat Generator Set

**Power Rating**

<table>
<thead>
<tr>
<th>Units</th>
<th>60 Hz — Standby</th>
<th>60 Hz — Prime</th>
</tr>
</thead>
<tbody>
<tr>
<td>kW (kVA)</td>
<td>110 (137)</td>
<td>100 (125)</td>
</tr>
</tbody>
</table>

**Performance Specification**

#### Lubricating System

<table>
<thead>
<tr>
<th>Oil pan capacity</th>
<th>L (gal)</th>
<th>9.4 (2.5)</th>
<th>9.4 (2.5)</th>
</tr>
</thead>
</table>

#### Fuel System

| 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        |           |

#### DEF System

| 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      | 42        |           |

#### Cooling System

| Ambient capability        | °C (°F) | 55 (131) | 55 (131) |
| Engine & radiator coolant capacity | L (gal) | 18.3 (4.8) | 18.3 (4.8) |

#### Noise Rating (with enclosure)

| @ 7 meters (23 feet) @ 75% rating | dB(A) | 66 | 65 |

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LEHX0035-05
## Technical Data (continued)

### Dimensions and Weights

<table>
<thead>
<tr>
<th>Model</th>
<th>Length mm (in)</th>
<th>Width mm (in)</th>
<th>Height mm (in)</th>
<th>With Lube Oil &amp; Coolant Kg (lb)</th>
<th>With all fluids Kg (lb)</th>
</tr>
</thead>
<tbody>
<tr>
<td>XQ125</td>
<td>3,222 (127)</td>
<td>1,244 (49)</td>
<td>1,858 (73)</td>
<td>2,372 (5,230)</td>
<td>2,876 (6,341)</td>
</tr>
<tr>
<td>XQ125 with trailer (electric brakes)</td>
<td>4,475 (176)</td>
<td>1,981 (78)</td>
<td>2,179 (86)</td>
<td>2,812 (6,200)</td>
<td>3,316 (7,311)</td>
</tr>
<tr>
<td>XQ125 with trailer (hydraulic brakes)</td>
<td>4,495 (177)</td>
<td>1,981 (78)</td>
<td>2,179 (86)</td>
<td>2,821 (6,220)</td>
<td>3,325 (7,331)</td>
</tr>
</tbody>
</table>
**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 ambients 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 35º API [16ºC (60ºF)] gravity having an LHV of 42 780 kJ/kg (18,390 Btu/lb) when used at 29ºC (85ºF) 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.