Standby 110 kW
Prime 100 kW
60 Hz 1800 rpm 480V
60 Hz 1800 rpm 600V

Image shown may not reflect actual configuration

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>

600V 60 Hz Rating (Optional)

<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>

Cat® C4.4 ACERT™ Diesel Engine

<table>
<thead>
<tr>
<th>Metric</th>
<th>Metric (English)</th>
</tr>
</thead>
<tbody>
<tr>
<td>I-4, 4-Stroke - Water Cooled Diesel</td>
<td>Turbocharged-Aftercooled</td>
</tr>
<tr>
<td>Bore</td>
<td>105 mm</td>
</tr>
<tr>
<td>Stroke</td>
<td>127 mm</td>
</tr>
<tr>
<td>Displacement</td>
<td>4.4 L</td>
</tr>
<tr>
<td>Aspiration</td>
<td>Turbocharged-Aftercooled</td>
</tr>
<tr>
<td>Compression Ratio</td>
<td>16.5:1</td>
</tr>
<tr>
<td>Engine rpm</td>
<td>1800</td>
</tr>
<tr>
<td>Governor Type</td>
<td>ADEM™ A4</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 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**
- 25 gal (96 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

<table>
<thead>
<tr>
<th>Cat Generator Set</th>
<th>Units</th>
<th>60 Hz — Standby</th>
<th>60 Hz — Prime</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Power Rating</strong></td>
<td>kW (kVA)</td>
<td>110 (137)</td>
<td>100 (125)</td>
</tr>
<tr>
<td><strong>Lubricating System</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oil pan capacity</td>
<td>L (gal)</td>
<td>9.4 (2.5)</td>
<td>9.4 (2.5)</td>
</tr>
<tr>
<td><strong>Fuel System</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fuel consumption — 100% Load</td>
<td>L/hr (gal/hr)</td>
<td>28.9 (7.65)</td>
<td>26.1 (6.91)</td>
</tr>
<tr>
<td>75% Load</td>
<td>L/hr (gal/hr)</td>
<td>-</td>
<td>20.1 (5.31)</td>
</tr>
<tr>
<td>50% Load</td>
<td>L/hr (gal/hr)</td>
<td>-</td>
<td>15.4 (4.06)</td>
</tr>
<tr>
<td>25% Load</td>
<td>L/hr (gal/hr)</td>
<td>-</td>
<td>9.7 (2.56)</td>
</tr>
<tr>
<td>Fuel tank capacity</td>
<td>L (gal)</td>
<td>568 (150)</td>
<td>568 (150)</td>
</tr>
<tr>
<td>Run time @ 75% rating</td>
<td>Hr</td>
<td></td>
<td>28</td>
</tr>
<tr>
<td><strong>DEF System</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DEF consumption — 100% Load</td>
<td>L/hr (gal/hr)</td>
<td>1.2 (0.31)</td>
<td>0.47 (0.12)</td>
</tr>
<tr>
<td>75% Load</td>
<td>L/hr (gal/hr)</td>
<td>-</td>
<td>0.72 (0.19)</td>
</tr>
<tr>
<td>50% Load</td>
<td>L/hr (gal/hr)</td>
<td>-</td>
<td>0.39 (0.10)</td>
</tr>
<tr>
<td>25% Load</td>
<td>L/hr (gal/hr)</td>
<td>-</td>
<td>0.45 (0.12)</td>
</tr>
<tr>
<td>DEF tank capacity</td>
<td>L (gal)</td>
<td>30 (7.92)</td>
<td>30 (7.92)</td>
</tr>
<tr>
<td>Run time @ 75% rating</td>
<td>Hr</td>
<td></td>
<td>42</td>
</tr>
<tr>
<td><strong>Cooling System</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ambient capability</td>
<td>°C (°F)</td>
<td>50 (122)</td>
<td>50 (122)</td>
</tr>
<tr>
<td>Engine &amp; radiator coolant capacity</td>
<td>L (gal)</td>
<td>18.3 (4.8)</td>
<td>18.3 (4.8)</td>
</tr>
<tr>
<td><strong>Noise Rating (with enclosure)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>@ 7 meters (23 feet) @ 75% rating</td>
<td>dB(A)</td>
<td>66</td>
<td>65</td>
</tr>
</tbody>
</table>

*
### Technical Data (continued)

<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>2,635 (5,810)</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>3,075 (6,780)</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>3,084 (6,800)</td>
</tr>
</tbody>
</table>
Control Panel and Power Distribution Layout

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Steel enclosure with hinged, lockable doors (not shown)</td>
</tr>
<tr>
<td>2</td>
<td>Circuit breakers for receptacles</td>
</tr>
<tr>
<td>3</td>
<td>Emergency stop</td>
</tr>
<tr>
<td>4</td>
<td>2X Single-phase GFCI duplex receptacles (20A @ 120V)</td>
</tr>
<tr>
<td>5</td>
<td>Two-wire remote start terminals</td>
</tr>
<tr>
<td>6</td>
<td>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</td>
</tr>
<tr>
<td>7</td>
<td>Single-phase, NEMA locking input receptacle, (30A @ 120V) to power block heater, battery charger and generator space heater</td>
</tr>
<tr>
<td>8</td>
<td>Glow plug lamp</td>
</tr>
<tr>
<td>9</td>
<td>EMCP 4.2B digital generator set controller</td>
</tr>
<tr>
<td>10</td>
<td>Cat ET service tool connector</td>
</tr>
<tr>
<td>11</td>
<td>Generator main circuit breaker</td>
</tr>
<tr>
<td>12</td>
<td>Main bus connection (bus bars with 13 mm holes) behind hinged cover with safety switch</td>
</tr>
<tr>
<td>13</td>
<td>HEST/DPF Regen Lamp</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 eW 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 shows 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.