



Power Systems Division
 25000 Novi Road
 Novi, Michigan 48375

Quote: 23EDP-CITY OF LIVONIA-XQ125-Sourcewell-01
 March 8, 2024
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PROJECT: CITY OF LIVONIA XQ125
Sourcewell Contract #092222-CAT

Michigan CAT Power Systems Division is pleased to submit the following quotation for your consideration. Items not specifically mentioned in this proposal are the responsibility of others.

Caterpillar XQ125 Portable Generator Set, with Trailer.
See Spec Sheet LEXE0035-08 for detailed information.
Price includes Pre-Delivery testing at our shop, & Delivery to site.

Total Quote **\$ 100,201**

Cat Generator	XQ125BM
Generator List Price	\$ 114,854
SW Member Discount %	21%
SW Member Discount \$	\$ 24,119
Sub-Total	\$ 90,735
Net Priced items*	\$ -
Sub-Total	\$ 90,735
Services / Source Goods	List Price
delivery	\$ 5,053
start-up/comm	\$ 4,912
Sub Total	\$ 11,228
SW Member Discount	5%
SW Member Discount	\$ 498
Services Total	\$ 9,467

NOTATIONS:

1. Startup performed in our shop, by Michigan CAT Field Service Technician during normal Michigan CAT business hours.
2. Unless otherwise noted, price includes the standard warranty as offered by Caterpillar Inc. or the component manufacturer. No other warranty is express or implied.
3. An electronic submittal will be provided for approval.
4. All fuel by others.
5. All material, labor, installation, etc., not specifically stated in the quote is the responsibility of others.
6. Generator is FOB factory, freight to jobsite is allowed. Offloading, rigging, and installation are by others.
7. Lead times are approximate and are from receipt of written notice to proceed.
8. Delays requested in delivery can result in storage but will be invoiced as "stored material". Storage fees may apply.
9. Terms are net 30 days after invoice date. 30% will be invoiced upon approval of submittals, or release to manufacture equipment. 60% will be invoiced upon delivery of equipment. These payments (90%) must be made to Michigan CAT prior to start-up. The final 10% is due 10 days after engine startup by Michigan CAT service department but not to exceed 90 days from date of delivery.

Thank you for the opportunity to quote on this project. If you have any questions, please feel free to contact me.

Regards,

Edward D. Pellegrini
 Michigan Cat Power Systems
 Electric Power Generation, Account Manager
 313.350.8911

By signing here, I agree to purchase the above Caterpillar equipment per the terms and conditions attached to this Bill of Material.

Printed Customer Name

Customer Signature

Title

Date

MICHIGAN CAT POWER SYSTEMS
A division of MacAllister Machinery Co. Inc. ("MacAllister")
TERMS AND CONDITIONS OF SALE

1. Both parties acknowledge and agree that recent unprecedented market circumstances, such as those in supply chains and transportation logistics, have resulted in high levels of unpredictability in the price of materials and product lead-times. Pricing for Equipment and services outlined in this quotation is current and approved for 15 days from the date listed on the quotation. After that 15-day period, even if the quoted price has been accepted by Buyer, MacAllister may, in its sole discretion, adjust the quoted price on written notice to Buyer. Such adjusted price will apply to all accepted, pending, unfilled, and future purchase orders. Within 15 days of receipt of such notice, Buyer may terminate the purchase order if it does not agree with the price increase, provided however that Buyer must pay any termination fees and actual costs incurred by MacAllister, if any, related to such termination.
2. Prices are subject to any applicable taxes.
3. Buyer acknowledges and agrees that MacAllister did not design or manufacture the Equipment and is not the agent of those that did. Standard manufacturer warranties apply. MACALLISTER MAKES NO WARRANTIES, EXPRESS OR IMPLIED, WITH RESPECT TO THE EQUIPMENT OR SERVICES AND MAKES NO WARRANTIES AS TO THE MERCHANTABILITY OF THE EQUIPMENT OR SERVICES OR ITS FITNESS FOR ANY PARTICULAR PURPOSE. MACALLISTER MAKES NO WARRANTY AGAINST INFRINGEMENT OF ANY PATENT, COPYRIGHT, TRADEMARK, TRADE SECRET, OR OTHER PROPRIETARY RIGHTS OF A THIRD PARTY. THERE IS NO WARRANTY THAT THE EQUIPMENT OR SERVICES ARE SUITED FOR LESSEE'S INTENDED USE, OR THAT THE EQUIPMENT OR SERVICES ARE FREE FROM DEFECTS OR CONTAMINANTS. EXCEPT AS MAY BE SPECIFICALLY SET FORTH IN THE AGREEMENT, MACALLISTER DISCLAIMS ALL WARRANTIES, EITHER EXPRESS OR IMPLIED, MADE IN CONNECTION WITH THIS TRANSACTION.
4. MACALLISTER WILL NOT BE LIABLE FOR ANY DAMAGES OF ANY KIND RESULTING FROM THE OPERATION, POSSESSION, OR USE OF THE EQUIPMENT, THE FAILURE OF SAID EQUIPMENT, OR FROM ANY DELAYS OCCASIONED THEREBY, AND BUYER AGREES TO DEFEND, INDEMNIFY, AND HOLD MACALLISTER HARMLESS FROM CLAIMS REGARDING SAME. MACALLISTER SPECIFICALLY DISCLAIMS ANY OBLIGATION BY IT TO ENSURE THAT THE EQUIPMENT COMPLIES WITH ANY PLANS, PERMITTING REQUIREMENTS, ORDINANCES, OR SPECIFICATIONS PROMULGATED BY OTHERS. IT IS THE OWNER'S SOLE RESPONSIBILITY TO ENSURE THAT THE EQUIPMENT WILL MEET LOCAL, STATE, AND FEDERAL ORDINANCES, REGULATIONS, AND EMISSION REQUIREMENTS.
5. All materials, labor, and installation required to complete the installation, but not specifically included with this quotation, is the responsibility of others.
6. MacAllister is an equipment supplier and not a subcontractor. Therefore, no retainage is to be withheld.
7. Unless otherwise stated on the quotation, terms of payment will be established upon receipt of an acceptable purchase order and receipt of a valid credit application. Equipment will be invoiced when it is available for Buyer pick up or delivery to jobsite. Delays by Buyer request of shipment or pick up will be subject to carrying charges of 2% per month on the unpaid balance commencing 15 days after notice of availability. Total purchase order amount will be invoiced no later than 12 months after date of purchase order. This quotation does not include unloading or installation of Equipment unless specifically indicated. All quoted onsite labor is based upon regular work hours. Additional charges apply to overtime labor. Delays during startup caused by others will be subject to additional charges.
8. Cancellation of Equipment after receipt of a written or verbal purchase order is subject to any cancellation charges incurred by MacAllister from suppliers of the Equipment. Any Equipment that cannot be cancelled will be assessed additional charges determined by MacAllister at the time of cancellation.
9. Typographic, stenographic, and mathematical errors are subject to correction.
10. MacAllister or its designated agent reserves the right to perform any necessary adjustments or modifications to the Equipment, including those that are made at the jobsite. If work rules preclude making these adjustments or modifications with MacAllister's designated personnel or agent, Buyer will make these adjustments or modifications at the Buyer's expense. MacAllister will not accept or honor any back charges or responsibility for such work performed.
11. MacAllister will not be liable or responsible to Buyer, nor will it be deemed to have defaulted under or breached this agreement, for any failure or delay in fulfilling or performing any term of the agreement, when such failure or delay is related to acts beyond its control, including, without limitation, the following: (a) acts of god; (b) flood, fire, earthquake, or explosion; (c) war, invasion, hostilities (whether war is declared or not), terrorist threats or acts, riot or other civil unrest; (d) pandemics, epidemics, or other viral outbreaks; (e) government order or law; (f) actions, embargoes or blockades in effect on or after the date of this agreement; (g) action by any governmental authority; (h) national, regional, state, or local emergency; (i) strikes, labor stoppages or slowdowns, or other industrial or supplier disturbances; and (j) other events beyond the control of MacAllister.
12. Title to the Equipment will remain with MacAllister until full payment is received from Buyer. Risk of loss or damage to the Equipment becomes the responsibility of Buyer upon Buyer's receipt of such products f.o.b. point of shipment.
13. These terms and conditions are the only terms between Buyer and MacAllister with respect to the Equipment. There are no oral or other representations or agreements not included herein. Any reference in Buyer's purchase order, quote, or other document to other terms or conditions to control this transaction is void and rejected regardless of whether MacAllister executes such purchase order. Any use of or reference to Buyer's purchase order number on is for Buyer's convenience only.
14. MacAllister provides pricing on components that operate as a total system. These components could include generator set(s), enclosure, cooling system, exhaust, transfer switches, and paralleling switchgear. If any components of the system are purchased from others, then system operational performance and testing is the responsibility of others. MacAllister will not provide technicians or Equipment to perform any system testing unless MacAllister provides the total system.



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 ³
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 $\pm 1/2\%$ 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
Power Rating	kW (kVA)	110 (137)	100 (125)
Performance Specification			
Lubricating System			
Oil pan capacity	L (gal)	9.4 (2.5)	9.4 (2.5)
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		24
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

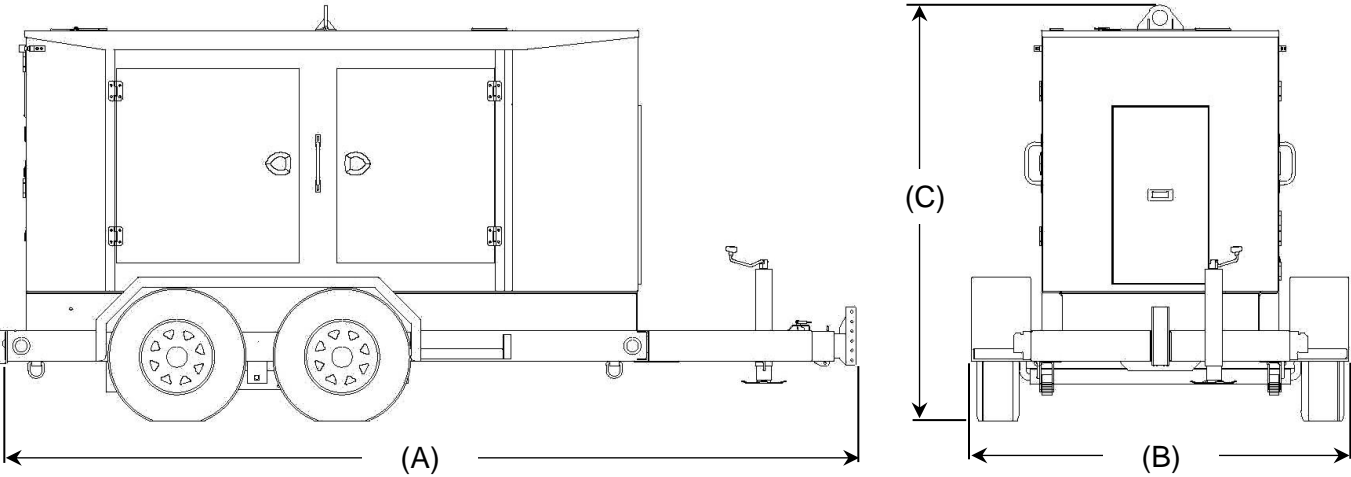


Technical Data (continued)

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)

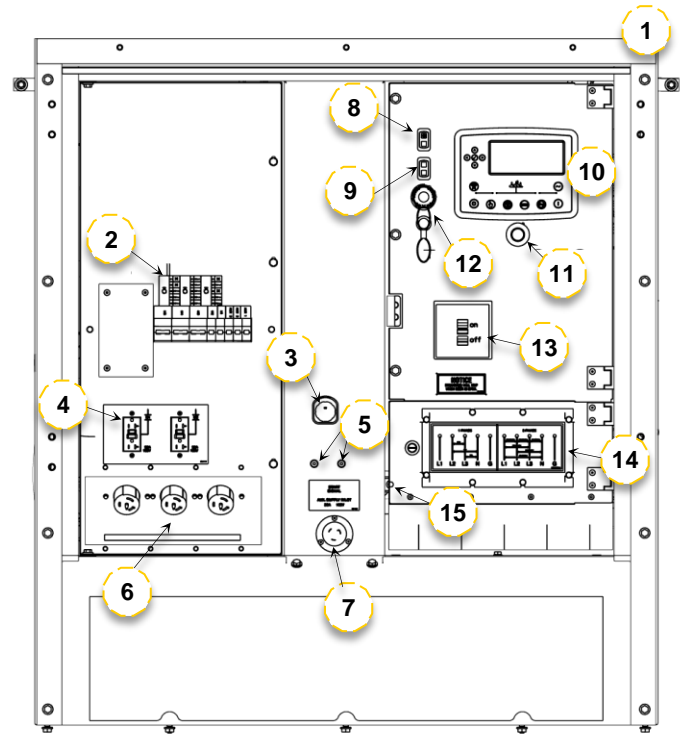
General Layout Dimensions

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



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.

www.Cat.com/rentalpower

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