



CAT XQ1750 DIESEL GENERATORS

3 AVAILABLE

Website: www.woodstockpower.com

Email: sales@woodstockpower.com

Phone: 610-658-3242



UNIT DETAILS

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CAT XQ1750 Diesel Generator Units

Woodstock Power Company currently has three (3) Caterpillar XQ1750 diesel generators now in-stock and available for immediate shipping.

These generator sets can be used either at 1750 kW Standby or 1600 kW Prime.

Detailed unit information can be found below:

	Unit 1	Unit 2	Unit 3
Make:	CAT	CAT	CAT
Model:	XQ1750	XQ1750	XQ1750
Fuel:	Diesel	Diesel	Diesel
Year:	March 19 th , 1999	March 18 th , 1999	April 12 th , 1999
Hours:	343	327	285
Rating:	1750 kW Standby 1600 kW Prime	1750 kW Standby 1600 kW Prime	1750 kW Standby 1600 kW Prime
Serial:	25Z Prefix	25Z Prefix	25Z Prefix

GENERATOR SPECIFICATIONS

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CAT XQ1750 Specifications

Caterpillar XQ1750

Engine Model 3516TA

Standby Rated: 1750 kW

Prime Rated: 1600 kW

Includes following features and equipment:

AIR INLET SYSTEM

- Air cleaner, regular duty with service indicators

CHARGING SYSTEM

- Battery charger, current limiting 20 amperes automatic equalize/float
- Charging alternator, 60 AMP, 24 VDC

CONTROL SYSTEM

- Governor.
- 2301A load share control with EG6P actuator

COOLING SYSTEM

- Cooling system, conventional core, filled with 50/50 glycol/water coolant
- Fuel cooler
- Water level gauge group
- Jacket water heater, dual 3 kW, 120 VAC/60 Hz

ENCLOSURES

- Sound-attenuated ISO container to meet 72 dBA at 50 ft or below per SAE
- J1074 measurement procedure.
- ISO/TC104
- ANSI/MH5.1
- UIC592.1
- Container with:
 - Galvanized steel deck on floor

- Galvanized steel deck on floor
- Rear air intake through stationary sound-attenuated louvers
- Radiator air discharge and exhaust gases exist container through roof opening, exhausting upwards
- Interior walls and ceiling are insulated with 100 mm (4 in) of acoustic glass and covered with perforated aluminized steel for a durable interior wall surface
- Floor of container is insulated with acoustic glass and covered with galvanized steel
- Three (3) personnel doors provided with sound-attenuation and double sealed
- One door located on each side of the engine
- External access door provided for bus bars and auxiliary connections (jacket water heaters, battery charger, space heater in generator and optional interior loads)
- Two (2) 24 VDC interior lights with 60 min. timer
- ABS approved and CSC rated 40 ft. container

EXHAUST SYSTEM

- Exhaust exits with radiator discharge
- Flexible fitting: 12 in.
- Muffler, 30 dBA, critical grade, lagged from ceiling of container insulated with 1 inch thick blanket from engine to container opening

FUEL SYSTEM

- Fuel tank: including sight gauge and exterior fill 1250 gal
- UL listed fuel priming pump
- RH water separator installed with fuel filter before engine
- Two-way fuel transfer pump, 30 GPM with NEMA 12 control panel

GENERATORS AND GENERATOR ATTACHMENTS

- Brushless PM excited, SR4 generator with 4 dips and brakes on stator
- 480 volt, 820 frame generators have coastal insulation protection
- Volts per Hertz automatic voltage regulator
- Mounted to rails and coupled to engine
- Space heater, 120 VAC/60 Hz

INSTRUMENTATION

- EMCP instrumentation
- Floor standing switchgear

LUBE SYSTEM

- Lubricating oil-SAE 10W30, CF4 diesel engine oil
- Sump pump, RH mounted
- Lube oil drain located on engine rail, access through entrance door

MOUNTING SYSTEM

- Neoprene vibration pads between generator set and container floor

STARTING SYSTEM

- Batteries & battery rack:
 - CCA rating 1250
 - 210 Ampere-hours, includes 2 batteries
- Dual electric starting motors

SWITCHGEAR

- Floor Standing Switchgear (480V/60 Hz) featuring the following:
 - Electronic Modular Control Panel (EMCP II) Components
 - Generator Set Control (GSC)

MONITORING

- Sequentially rotating, backlit display of:
 - Engine hours
 - Engine RPM
 - DC battery voltage
 - Oil pressure
 - Water Temperature
- Includes push-button to hold display on any single parameter

PROTECTION

- Shutdowns:
 - Over speed
 - Over crank
 - High water temperature
 - Low oil pressure
 - Emergency stop
 - Coolant loss
- LED indicator for each condition

AC METERING

- Three (3) phase volts (L-L)
- Amperes and Frequency with Phase Select push-button
- Backlit LCD
- Meeting accuracy is 0.5%

CONTROL

- Automatic starting with field adjustable cycle crank
- Failure to start (over crank)
- Cool down timer

PROGRAMMING AND DIAGNOSTICS

- Includes field programmable set-points for engine control and monitoring variables, as well as self-diagnosis of EMCP II system component and wiring failures

ALARM MODULE

- Flashing LED warnings for:
 - Low coolant temperature
 - High coolant temperature (pre-alarm)
 - Low oil pressure (pre-alarm)
 - Engine control switch not in automatic
 - Low DC voltage
- Includes alarm horn and acknowledge push-button

CONTROLS

- Engine control switch
- Snap action rotary switch:
 - Four (4) Position:
 - Off/Reset
 - Automatic
 - Manual
 - Stop/cool down
- Off/reset for engine shutdown and resetting faults
- Automatic remote starting by customer contract closure
- Manual for local starting and manual paralleling
- Stop/cool down for manual operation cool down
- Alarm acknowledge/lamp test switch
- Three (3) position spring return to center switch for alarm acknowledge and lamp test of all discrete indicating lamps

EMERGENCY STOP PUSH-BUTTON

- Mushroom head, twist to reset, causes engine shutdown and tripping of the generator circuit breaker
- Prevents engine starting when depressed

AUTOMATIC OR MANUAL PARALLELING

- Controls consisting automatic synchronizer, synch check relay, reverse power relay, synchronizing lights and switch
- Reverse power condition causes tripping of the generator circuit breaker, immediate engine shutdown, flashing of indicating lamp and sound of alarm horn

PROGRAMMABLE LOGIC CONTROLLER

- Controls ramp time for load application and removal, limits total load levels, field programmable

PROTECTIVE RELAYS

- 81 O/U – Over under frequency
- 51G – Ground relay
- 46 – Phase balance relay
- 86 – Lock out relay
- 32 – Reverse power
- 59 – Over Voltage relay

CIRCUIT BREAKER

- Fixed mounted, 3 pole, manually or electrically operated, molded case circuit breaker with solid state trip unit for overload (time overcurrent) and fault (instantaneous) protection
- Includes DC shunt trip coil activated on any generator set monitored fault
- Circuit breaker is sized for full load capacity of the generator set at 0.8 power factor

LOAD SHARE GOVERNOR

- Electronic load sharing governor with speed adjust potentiometer
- Idle/Rated switch
- Isochronous/Droop switch

VOLTAGE REGULATOR

- Standard Caterpillar generator mounted VR3 voltage regulator with voltage adjust rheostat mounted in the floor standing switchgear
- VAR/Power Factor controller

CURRENT TRANSFORMERS

- Three (3) 5 ampere secondary with shorting terminal strips

POTENTIAL TRANSFORMER

- Three (3) 120 VAC secondary with primary and secondary fuse protection
- Two (2) connected to the generator side of the circuit breaker
- One (1) connected to the load side of the circuit breaker

BUS BARS

- Three Phase plus fully rated neutral bus bars are tin plated aluminum with NEMA standard hole pattern for connection of customer load cables and generator cables
- Bus bars are sized for full load capacity of the generator set at 0.8 power factor
- Also includes ground bus, tin plated aluminum, connected to generator frame ground and container frame with holes for connection of field ground cable
- Bus bars are accessible from outside of the power module via hinged, lockable cable access door

ACCESSORY POWER

- Three (3) 120 VAC shore power connections for jacket water heaters, generator space heater, and battery charger
- Includes fault protection and relays to de-energize jacket water heaters and generator space heater when the engine is running

BATTERY CHARGER

- 24 VDC/20A battery charger with float/equalize modes and charging ammeter

GENERAL

- Interior lights:
 - Two (2) 24 VDC with off timer
- Auxiliary Power (shore power) automatically changes the auxiliary power distribution from a customer provided source to generator bus when the generator is running
- Two-axle slider under carriage

GENERATOR PHOTOS

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CATERPILLAR®

GENERATOR SET

SALES MODEL 8516

RATING

4000 KVA 600 KW COS φ HERTZ

 CONTINUOUS PRIME STANDBY

PRIME - PLUS 10 PERCENT AVAILABLE

GENERATOR DATA

3 PHASE WIRE DELTA

XX WYE (STAR) PARALLEL

CONNECTION XX SERIES

GENERATOR 480 VOLTS 4000 AMPS

EXCITATION 19 VOLTS 15 AMPS

924 FRAME 800 REV/MIN

MAXIMUM TEMPERATURE RISE 100 °C BY RESISTANCE METERS AT LOAD

80 °C AMBIENT 1000 INSULATION

CLASS INSULATION

ENCLOSURE TYPE

YEAR

INCLUDE SERIAL NUMBER AND GENERATOR PART NUMBER FROM GENERATOR SERIAL NUMBER PLATE WITH ORDERING PARTS AND IN CORRESPONDENCE
GENERATOR FRAME SHOULD BE GROUNDED.

4P-0416 1

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