

Image shown may not reflect actual package

STANDBY PRIME

1000 kW 910 kW

Frequency	Voltage	Standby kW (kVA)	Prime kW (kVA)
50 Hz	400V 3 Phase	800 (1000)	728 (910)
60 Hz	480/277V 3 Phase	1000 (1250)	910 (1137)

FEATURES

EPA Tier 2 and CARB Ceritified for non-road mobile applications. Factory designed, certified prototype tested with torsional analysis. Production tested and delivered in a package ready to be connected to power your electrical loads. Designed with the features needed for the remote, rugged environments. Supported 100% by your Caterpillar® dealer with warranty on parts and labor. Extended warranty available in some areas. The generator set is designed and manufactured in an ISO 9001:2000 compliant facility. Generator set and components meet or exceed the following specifications: AS1359, AS2789, ABGSM TM3, BS4999, DIN6271, DIN6280, EGSA101P, JEM1359, IEC 34/1, ISO3046/1, ISO8528, NEMA MG1-22

CATERPILLAR SR4B GENERATOR

Two bearing, wye-connected, static regulated, brushless permanent magnet excited generator designed to match the performance and output characteristics of the Caterpillar diesel engine that drives it.

RELIABLE, FUEL EFFICIENT DIESEL ENGINE

The compact, four-stroke-cycle Cat C32 diesel engine combines durability with minimum weight while providing dependability and economy.

CATERPILLAR COOLING SYSTEM

Oversized, efficient radiator for jacket water and charge air cooling at 50° C (122° F) ambient conditions.

CATERPILLAR CONTROLS

Provides EMCP 3.3 provides enhanced engine monitoring, diagnostics and controls including revese power relay protection.

EXCLUSIVE CATERPILLAR DIGITAL VOLTAGE REGULATOR (CDVR)

Three-phase sensing and adjustable Volts-per-Hertz regulation give precise control, excellent block loading, and constant voltage in the normal operating range.

ENVIRONMENTALLY FRIENDLY

110% full spill containment of all onboard fluids.

GENERATOR PROTECTION

Package mounted, manually operated 1600A 3 Pole UL Listed Breaker.

CSC CERTIFIED CONTAINER

For ease of transportation and protection.

RC1000 RENTAL



FACTORY INSTALLED STANDARD AND OPTIONAL FEATURES

SYSTEM	STANDARD FEATURES	
Air Inlet	Heavy duty air cleaner, dual element canister type with pre-cleaners and service indicator	
Charging/ Starting System	45A charging alternator with integral regulator and fully guarded 20A battery charger with meter 24-volt electric starting motor mounted on engine Dual 12V (950 CCA) Cat brand maintenance free batteries with disconnect switch, battery rack, cables, installed on the base	
Control Panel	EMCP 3.3 control panel with reverse power relay protection, enhanced engine monitoring Text alarm / event descriptions Warning/shutdown with common LED indication for low oil pressure, high coolant temperature, overspeed, emergency stop, failure to start, low coolant level Controls for speed adjust, auto start/stop control, engine cool-down timer, engine cycle crank, alarm acknowledge, lamp test, true RMS AC metering, 3-phase ± 2% accuracy Digital indication for RPM, DC volts, operating hours, oil pressure, coolant temperature, volts (L-L & L-N), frequency, Amps 1600 Amps, electrically operated, package mounted, UL Adjustable Trip Main Breaker (with ground fault current interrupt)	
Cooling System	ATAAC, 38 Split JW/CAC Radiator, package mounted with vertical discharge designed for 50 C ambient capability at 300M Caterpillar extended life coolant, 50% Ethylene glycol antifreeze with corrosion inhibitor Blower fan, fan drive, and belts complete with protection guards. Fan consumes 86 hp. Air flow 46,000 cfm with external static pressure 0.75" H ₂ O 240V AC, 50/60 Hz single phase, 9kW jacket water heater. For use in 0° C (32° F) minimum Coolant drain lines with valves piped to base-frame	
Enclosure	30' ISO container with two stationary air intake louvers, roof discharge with grates, exterior fuel fill with door, exterior radiator fill door, dual load cable access doors, and two personnel entrance doors Custom sheet metal pan provides 110% spill containment for engine and radiator fluids. Genset mounting bolts fasten into the containment basin Three (3) 24 VDC lights Emergency stop pushbutton Hinged, lockable access door for easy radiator maintenance Finish paint, Power Module white / protective undercoat, external Cat Rental decals	
Engine	Heavy duty industrial Tier 2 compliant Caterpillar C32 with ADEM A4 electronic governor compliant with BS5514, Class A1 12V DC energized to shutdown solenoid. Oil pressure and coolant temperature/level shutdowns switches and gauge senders	
Exhaust System	Internal mounted 12" critical exhaust silencer with internal insulation Exhaust manifold – dry – single 203 mm (8 in) Heat guards and wrapped exhaust system	
Fuel System	1250 gallon UL listed dual wall fuel tank – no fuel transfer system – dual internal/external fuel fill 24 hour run time @ 75% prime load Racor Fuel/Water Separator with service valve and pressure gauge Secondary fuel filters 3-way valve system for use with a customer supplied external tank	
Generator	692 frame, 3 phase, 12-lead, brushless salient pole, random wound Class H Insulation with coastal insulation protection Winding temperature detectors Permanent magnet provides 350% short circuit, enhanced motor starting, and non-linear load performance Caterpillar Digital Voltage Regulator (CDVR) includes KVAR/PF modes, RFI suppression, min/max exciter limiter and exciter diode monitor 120/240 VAC 900 W anti-condensation heater Generator leads tied to externally accessible, MSHA compliant bus bar connections	
Lube System	Cartridge type full flow lube oil filters (spin-on) and dipstick Gear type lube oil pump, lubricating oil, integral oil cooler Deep sump oil pan with 500 hour service intervals Fumes disposal Oil drain lines with valve	
Mounting System	Engine-generator are directly coupled using SAE flange prohibiting misalignment and the engine flywheel is flexibly coupled to the generator rotor Rails – engine/generator/radiator mounting with rubber anti-vibration mounts 110% spill containment	
General	Full manufacturer's warranty Factory testing Caterpillar yellow paint on engine and generator, black on base, lifting arch, and radiator, white enclosure Complete O&M manuals The equipment meets the following quality standards: BS49999, BS5000, BS5514, IEC60034, EN6100-6, NEMA MG1-22.	
Undercarriage	30 ft undercarriage, 2 axle w/ ladders and stabilizing jacks (optional)	

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SPECIFICATIONS CAT SR4B GENERATOR

Frame Size
Excitation Static regulated brushless PM excited
Constructions Two bearing, close coupled
Insulation
Enclosure Drip proof
AlignmentPilot shaft
Overspeed capability – $\%$ of rated
Wave deviation form $\dots \dots 2\%$
Voltage regulator3 phase sensing with Volts-per-Hertz
Voltage regulation Less than $\pm \frac{1}{2}\%$ voltage gain
Adjustable to compensate for engine speed droop and line loss
Wave formLess than 5% deviation
Telephone Influence Factor (TIF)Less than 50
Harmonic Distortion (THD)

CAT C32 DIESEL ENGINE

C32 TA, V-12, 4-Stroke diesel	
Bore – mm (in)145 (5.7	71)
Stroke – mm (in)	38)
Displacement – L (cu in)	36)
Compression ratio1	5:1
Aspiration	TΑ
Fuel system ME	UI
Governor type Caterpillar ADEM™ A4 Control Syste	em

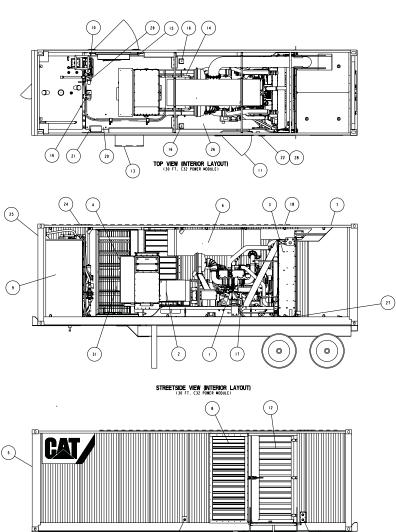
TECHNICAL DATA

		C32-30' XQ1000	
Power Rating 50 Hz 60 Hz	ekW (kVA) ekW (kVA)	Standby 800 (1,000) 1000 (1,250)	Prime 728 (910) 910 (1,137)
Engine and Container Information Engine model Container size Container dimensions	m (ft) mm (in) mm (in) mm (in)	C32 9 (30) Length – 9144 (360) Width – 2438 (96) Height – 2896 (114)	
Fuel Capacity Operation at 75% Prime Load Factor (60 Hz)	L (gal) hours	4730 (1,250) 23.5	
Approximate Weight Container with lube oil and coolant Container and chassis with lube oil and coolant Container with fuel, lube oil and coolant Container and chassis with fuel, lube oil and coolant	kg (lb) kg (lb) kg (lb) kg (lb)	15 649 (34,500) 19 278 (42,500 17 237 (38,000) 20 866 (46,000)	
Sound Level @ 15 m (50 ft)	dB(A)	> 80	
Fuel Consumption @ 60 Hz 100% rated load 75% rated load 50% rated load	L/hr (gph) L/hr (gph) L/hr (gph)	278.7 (73.6) 218.5 (57.7) 151.6 (40.1)	252 (66.6) 200.7 (53.0) 139.3 (36.8)
Fuel Consumption @ 50 Hz 100% rated load 75% rated load 50% rated load	L/hr (gph) L/hr (gph) L/hr (gph)	258.6 (68.3) 205.6 (54.3) 136.5 (36.1)	240.1 (63.4) 186.5 (49.3) 123.8 (32.7)

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CATERPILLAR®



CURBSIDE VIEW
(30 FT. C32 POWER MODULE)

	METRIC 344-4847
ITEM	DESCRIPTION
- 1	C32 GENSET - EPA CERTIFIED (TIER 2)
2	480V, 60 HZ RANDOM WOUND GENERATOR (692 FRAME)
3	38 SQ. FT. JW/ATAAC RADIATOR
4	EMCP 3.3 CONTROLS W/ ANNUNCIATOR PANEL AND FUEL DISPLAY PANEL
5	30 FT. ISO PURPOSE BUILT CONTAINER
6	INTERNAL CRITICAL GRADE MUFFLER
7	VERTICAL RADIATOR AND EXHAUST DISCHARGE
8	AIR INLET LOUVERS (3 QTY)
9	1250 GALLON DW FUEL TANK
10	FUEL/WATER SEPARATORS W/ SERVICE VALVE
-11	PERSONNEL DOOR (I QTY)
12	LOUVERED PERSONNEL DOOR (QTY)
13	SIDE LOAD CABLE ACCESS DOOR W/PROTECTIVE CABLE COVER AND CABLE SUPPORT SYSTEM
14	24V DC MAINTENANCE FREE BATTERIES (2 QTY)
15	24V DC TIMER
16	24V DC LAMPS (3 QTY)
17	JACKET WATER HEATER (9 KW)
18	RADIATOR FILL ACCESS DOOR
19	REMOTE FUEL CONNECTION HOOK-UP (I-I/2" NPT)
20	LITERATURE BOX
21	BATTERY CHARGER
22	COOLANT DRAIN (1/2" NPT)
23	30 FT. 3 AXLE CHASSIS
24	FUEL PROBE ACCESS DOOR
25	EXTERIOR FUEL FILL DOOR
26	SPILL CONTAINMENT PAN
27	SPILL CONTAINMENT DRAIN
28	OIL DRAIN (1/2" NPT)
29	2-WAY FUEL VALVE SYSTEM
30	EXTRA WIDE LADDER (54") W/ HANDRAILS
31	GEN MOUNTED BREAKER (1600 AMP)
32	EXTERNAL E-STOP (2 QTY)