DIESEL GENERATOR SET





STANDBY 1000 ekW 1250 kVA 60 Hz 1800 rpm 480 Volts

Caterpillar is leading the power generation marketplace with Power Solutions engineered to deliver unmatched flexibility, expandability, reliability, and cost-effectiveness.

FEATURES

EMISSIONS STRATEGY

Low emissions

UL 2200

UL 2200 Listed configuration available

FULL RANGE OF ATTACHMENTS

 Wide range of bolt-on system expansion attachments, factory designed and tested

WORLDWIDE PRODUCT SUPPORT

- Caterpillar® dealers provide extensive post sale support including maintenance and repair agreements
- Caterpillar dealers fill 99.7% of parts orders within 24 hours
- Caterpillar dealers have over 1,844 dealer branch stores operating in 166 countries
- The Cat® S•O•SSM program cost effectively detects internal engine component condition, even the presence of unwanted fluids and combustion by-products

CAT 3508B TA DIESEL ENGINE

- Reliable, rugged, durable design
- Field-proven in thousands of applications worldwide
- Four-stroke-cycle diesel engine combines consistent performance and excellent fuel economy with minimum weight
- UL 2200 Listed packages are available. Certain restrictions may apply. Consult with your Caterpillar dealer.



CAT SR4B GENERATOR

- Matched to the performance and output characteristics of Caterpillar engines
- Optimum winding pitch for minimum total harmonic distortion and maximum efficiency
- Single point access to accessory connections
- UL 1446 recognized Class H insulation



CAT EMCP3 CONTROL PANELS

- Controls designed to meet individual customer needs:
- EMCP3 provides the option for full-featured power metering and protective relaying
- UL 508A Listed

60 Hz 1800 rpm 480 Volts



FACTORY INSTALLED STANDARD & OPTIONAL EQUIPMENT

	Standard	Optional Dural plans and 8 has a supply distribution of a supply distri
Air Inlet	Single element canister type air cleaner	Dual element & heavy duty air cleaners (with
	Service indicator	pre-cleaners)
		Air inlet adapters & shutoff
Cooling	Radiator with guard (43°C)	Radiator with 27C and 50°C ambient capability
	Low profile (frontal area)	Radiator option for 57°C ambient with treated water
	Low airflow	Radiator removal
	Coolant drain line with valve	 Heavy duty, harsh enviorment radiator at 43°C and
	Fan and belt guards	50°C
	Caterpillar Extended Life Coolant*	Heat exchanger and expansion tank
	Coolant level sensors	Coolant level switch gauge
	Low coolant level & high temperature alarm or	Jacket water heater
	shutdown	
	Radiator duct flange	
	* Not included with packages without radiators	
Exhaust	Dry exhaust manifold	Mufflers & Silencers
Exilausi		
	Flanged faced outlets	• Stainless steel exhaust flex fittings
		Elbows, flanges, expanders & Y adapters
Fuel	Secondary fuel filters	Water separator
	Fuel priming pump	Duplex fuel filter
	Flexible fuel lines	
	• Fuel cooler*	
	*Not included with packages without radiators	
Generators	Permanent magnet excited	Oversize & premium generators
	Class H insulation	
	Class F temperature (105°C prime/130°C standby)	
	Winding temperature detectors	
D T : .:	Anti-condensation space heaters	0: ::1 1 1111:: 1 0 1 ::1 1 1 ::1 000/
Power Termination	Bus bar (NEMA and IEC mechanical lug holes)right	Circuit breakers, UL listed, 3 pole with shunt trip, 80%
	side standard	or 100% rated, choice of trup units, manual or
	Top and bottom cable entry	electrically operated (low voltage only)
		 Circuit Breakers, IEC compliant, 3 or 4 ople iwth shunt
		trip (low voltage only), choice of trip units,manual or
		electrically operated
		Shroud cover for bottom cable entry
		Power terminiations can be located on the left and/or
		rear as an option. Also, multiple circuit breakers can
_		be ordered (up to 3)
Governor	• ADEM™ III	Load Share Module
		Load Share Module
Governor Control Panels	User interface panell (UIP) - rear mount	Load Share Module EMCP 3.3
	User interface panell (UIP) - rear mount EMCP3.1 Genset Controller	Load Share Module EMCP 3.3 Option for right or left mount UIP
	User interface panell (UIP) - rear mount EMCP3.1 Genset Controller Voltage and Speed adjust	Load Share Module EMCP 3.3 Option for right or left mount UIP Option for rear or left mount Customer wiring area
	User interface panell (UIP) - rear mount EMCP3.1 Genset Controller Voltage and Speed adjust AC&DC customer wiring area (right side)	Load Share Module EMCP 3.3 Option for right or left mount UIP
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Control Panels Lube Mounting Starting/Charging	User interface panell (UIP) - rear mount EMCP3.1 Genset Controller Voltage and Speed adjust AC&DC customer wiring area (right side) CAT digital voltage regulator (CDVAR) with KVAR/PF control, 3 phase sensing Reactive droop Emergency stop push button Lubricating oil and filter Oil drain valve Fumes disposal Gear type lube oil pump Structual steel tube Anti-vibration mounts (shipped loose) 24 volt starting motor(s) 45 amp charging alternator Batteries with rack and cables Battery disconnect switch	Load Share Module EMCP 3.3 Option for right or left mount UIP Option for rear or left mount Customer wiring area Local and remote annuniciator modules Load share modules Discrete I/O Module Generator temperature monitoring & portection Oil level regulator Deep sump oil pan Electric & air prelube pumps Manual prelube with sump pump Duplex oil filter Isolator removal Spring-type isolator, zone 4 Battery chargers (10 Amp) Oversize batteries Ether starting aids Heavy duty starting motors
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60 Hz 1800 rpm 480 Volts



SPECIFICATIONS



CAT GENERATOR

SR4B Generator	
Frame size	692
Excitation	Permanent Magnet
Pitch	0.7143
Number of poles	4
Number of bearings	002
InsulationUL 1446 Reco	gnized Class H with
tropicalization and antiabrasion IP rating	Drip Proof IP22
Alignment	Closed Coupled
Overspeed capability - % of rated	150
Wave form	003.00
Paralleling kit/Droop transformer	Standard
Voltage regulator.3 Phase sensing wi	th selectible volts/Hz
Voltage regulationLess than +,	/- 1/2% (steady state)
Less than +/- 1% (no load to full load) Telephone Influence Factor	Less than 50
Harmonic distortion	Less than 5%



CAT DIESEL ENGINE

3508B TA, 4-stroke-cycle watercooled diesel				
Bore - mm	170.00 mm (6.69 in)			
Stroke - mm	190.00 mm (7.48 in)			
Displacement - L	34.53 L (2107.15 in ³)			
Compression ratio	14.0:1			
Aspiration	TA			
Fuel system	Electronic unit injection			



CAT CONTROL PANELS



CAT EMCP3 CONTROLS

EMCP 3.1 (Standard)

EMCP 3.3 (optional)

· Single location for customer connector

IP 23 enclosure

24 Volt DC Control

UL/CSA/CE

-Electronically dead front

Lockable hinged door

Run/Auto/Stop control

True RMS metering, 3-phase

Voltage Adjust (Optional on 3.1)

• Digital indications for:

-RPM

- Operating hours
- Oil pressure
- Coolant temperature
- System DC volts
- L-L volts, L-N volts, phase amps, Hz
- ekW, kVA, kVAR, kW-hr, %kW, PF
- Shutdowns with indicating lights for:
- Low oil pressure
- High coolant temperature
- Overspeed
- Emergency stop
- Failure to start (overcrank)
- Programmable protective relaying functions:
- Under and over voltage
- Under and over frequency
- Reverse power
- -Overcurrent

MODBUS isolated data link (RS-485 half-duplex) supports serial communication at data rate up to 115.2 kbaud (*)

60 Hz 1800 rpm 480 Volts



TECHNICAL DATA

Open Generator Set 1800 rpm/60 Hz/480 Volts	DM6702	
Package Performance		
Genset Power rating with fan	1000 ekW	
Genset Power rating @ 0.8 pf	1250 kVA	
Low Emissions		
Coolant to aftercooler temp max	30 ° C	86 ° F
Fuel Consumption		
100% load with fan	279.8 L/hr	73.9 Gal/hr
75% load with fan	211.6 L/hr	55.9 Gal/hr
50% load with fan	145.8 L/hr	38.5 Gal/hr
Cooling System		
Air flow restriction (system)	0.12 kPa	0.48 in. water
Engine coolant capacity	102.7 L	27.1 gal
Radiator coolant capacity	223.3 L	59.0 gal
Engine Coolant capacity with radiator/exp. tank	326.0 L	86.1 gal
Inlet Air		
Combustion air inlet flow rate	92.4 m³/min	3263.1 cfm
Exhaust System		
Combustion air inlet flow rate	92.4 m³/min	3263.1 cfm
Exhaust stack gas temperature	408.2 ° C	766.8 ° F
Exhaust gas flow rate	222.3 m³/min	7850.5 cfm
Exhaust flange size (internal diameter)	203.2 mm	8.0 in
Exhaust system backpressure (maximum allowable)	6.7 kPa	26.9 in. water
Heat Rejection		
Heat rejection to coolant (total)	454 kW	25819 Btu/min
Heat rejection to exhaust (total)	939 kW	53401 Btu/min
Heat rejection to aftercooler	353 kW	20075 Btu/min
Heat rejection to atmosphere from engine	115 kW	6540 Btu/min
Heat rejection to atmosphere from generator	56.0 kW	3184.7 Btu/min
Alternator		
Motor starting capability @ 30% voltage dip	1990 skVA	
Frame	692	
Temperature Rise	130 ° C	266 ° F
Lube System		
Sump refill with filter	219.6 L	58.0 gal
Emissions (Nominal)		
NOx g/hp-hr	4.74 g/hp-hr	
CO g/hp-hr	0.31 g/hp-hr	
HC g/hp-hr	0.31 g/hp-hr	
PM g/hp-hr	0.075 g/hp-hr	

Ambient capability at 300m (984 ft) above sea level. For ambient capability at other altitudes, consult your Caterpillar dealer.

UL 2200 Listed packages may have oversized generators with a different temperature rise and motor starting characteristics. Generator temperature rise is based on a 40°C ambient per NEMA MG1-32.

Emissions data measurements are consistent with those described in EPA CFR 40 Part 89, Subpart D & E and ISO8178-1 for measuring HC, CO, PM, NOx. This engine's exhaust emissions are in compliance with the US EPA and California nonroad regulations as identified above. Data shown is based on steady state operating conditions of 77°F, 28.42 in HG and number 2 diesel fuel with 35° API and LHV of 18,390 btu/lb. The nominal emissions data shown is subject to instrumentation, measurement, facility and engine to engine variations.

60 Hz 1800 rpm 480 Volts



RATING DEFINITIONS AND CONDITIONS

Meets or Exceeds International Specifications: ABGSM TM3, AS1359, AS2789, BS4999, BS5000, BS5514, DIN6271, DIN6280, EGSA101P, IEC34/1, ISO3046/1, ISO8528, JEM1359, NEMA MG 1-22, VDE0530, 89/392/EEC, 89/336/EEC

Standby - Output available with varying load for the duration of the interruption of the normal source power. Standby power in accordance with ISO8528. Fuel stop power in accordance with ISO3046/1, AS2789, DIN6271, and BS5514. Standby ambients shown indicate ambient temperature at 100 percent load which results in a coolant top tank temperature just below the shutdown temperature.

Ratings are based on SAE J1995 standard conditions. These ratings also apply at ISO3046/1, DIN6271, and BS5514 standard conditions.

Fuel Rates are based on fuel oil of 35° API (16° C or 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. Consult your Caterpillar representative for details.

60 Hz 1800 rpm 480 Volts



DIMENSIONS

Package Dimensions				
Length	4861.5 mm	191.4 in		
Width	2317.8 mm	91.25 in		
Height	2545.1 mm	100.2 in		
Weight	10 259 kg	22,617 lb		

Note: Do not use for installation design. See general dimension drawings for detail (Drawing #2001179).

Performance No.: DM6702 www.CAT-ElectricPower.com

Feature Code:: 508DE1K © 2005 Caterpillar All rights reserved.

Source:: U.S. Sourced
17 August 2005

Materials and specifications are subject to change without notice. The International System of Units (SI) is used in this publication.