DIESEL GENERATOR SET





Image shown may not reflect actual package.

PRIME 1020 ekW 1275 kVA 50 Hz 1500 rpm 400 Volts

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

FEATURES

FUEL/EMISSIONS STRATEGY

• Low Fuel consumption

DESIGN CRITERIA

 The generator set accepts 100% rated load in one step per NFPA 110 and meets ISO 8528-5 transient response.

FULL RANGE OF ATTACHMENTS

- Wide range of bolt-on system expansion attachments, factory designed and tested
- Flexible packaging options for easy and cost effective installation

WORLDWIDE PRODUCT SUPPORT

- Cat dealers provide extensive post sale support including maintenance and repair agreements
- Cat dealers have over 1,800 dealer branch stores operating in 200 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® 3512 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

CAT SR5 GENERATOR

- Matched to the performance and output characteristics of Cat engines
- · Industry leading mechanical and electrical design
- Industry leading motor starting capabilities
- High Efficiency

CAT EMCP 4 CONTROL PANELS

- Simple user friendly interface and navigation
- Scalable system to meet a wide range of customer needs
- Integrated Control System and Communications Gateway

50 Hz 1500 rpm 400 Volts



FACTORY INSTALLED STANDARD & OPTIONAL EQUIPMENT

Air Inlet Single element canister type air cleaner Service indicator Cooling Radiator with guard Coolant drain line with valve Fan and belt guards Cat® Extended Life Coolant* Exhaust Dry exhaust manifold Flanged faced outlets Fuel Fuel Secondary fuel filters Fuel priming pump Flexible fuel lines Fuel cooler* Generator Generator Cat digital voltage regulator (CDVR) with kVAR/PF control, 3-phase sensing Reactive droop Power Termination Bus bar (NEMA or IEC mechanical lug holes) Top cable entry Governor Control Panels EMCP 4.2 User Interface panel (UIP) - wall mounted AC & DC Customer wiring area (right side) Emergency stop pushbutton Funds of the side of the share of the side of the	System	Standard	Optional	
Cooling - Radiator with guard - Coolant drain line with valve - Fan and belt guards - Cat® Extended Life Coolant* Exhaust - Dry exhaust manifold - Flanged faced outlets - Secondary fuel filters - Fuel - Secondary fuel filters - Fuel priming pump - Flexible fuel lines - Fuel cooler* Generator - Class H insulation - Cat digital voltage regulator (CDVR) with kVAR/PF - control, 3-phase sensing - Reactive droop - Russ bar (NEMA or IEC mechanical lug holes) - Top cable entry - Top cable entry - Woodward 2301A isochronous Governor - Woodward 2301A isochronous - EMCP 4.2 - User Interface panel (UIP) - wall mounted - AC & DC customer wiring area (right side) - Emergency stop pushbutton - Lube - Lubricating oil and filter - Oil drain line with valves - Funes disposal - Funes disposal - Standards - Can problem pumps - Funes disposal - Standards		Single element canister type air cleaner		
Coolant drain line with valve		Service indicator	[] Air inlet adapters & shut-off	
Fan and belt guards Cat® Extended Life Coolant*	Cooling	Radiator with guard	[] Radiator duct flange	
Exhaust - Dry exhaust manifold - Flanged faced outlets - Secondary fuel filters - Fuel - Secondary fuel filters - Fuel priming pump - Flexible fuel lines - Fuel cooler* - Class H insulation - Cat digital voltage regulator (CDVR) with kVAR/PF control, 3-phase sensing - Reactive droop - Bus bar (NEMA or IEC mechanical lug holes) - Top cable entry - Woodward 2301A isochronous - Woodward 2301A isochronous - Control Panels - EMCP 4.2 - User Interface panel (UIP) - wall mounted - AC & DC customer wiring area (right side) - Emergency stop pushbutton - Cat® Extended Life Coolants - Flanged faced outlets - Flanged faced entry - Flanged faced outlets - Flanged faced face			[] Jacket water heater	
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• Gear type lube oil pump [] Manual prelube with sump pump		1	· · · · ·	
[] Duplex oil filter		Coar type rase on pamp		
Mounting • Rails - Engine / generator / radiator mounting [] Isolator removal	Mounting	Rails - Engine / generator / radiator mounting		
• Rubber anti-vibration mounts (shipped loose) [] Spring-type vibration isolator (shipped loose)	Widanting			
[] IBC Isolators		Transcer and transcer meants (emptod 1995)		
Starting/Charging • 24 volt starting motor(s) [] Battery chargers (5 or 10 amp)	Starting/Charging	• 24 volt starting motor(s)		
• Batteries with rack and cables [] 45 amp charging alternator		-		
• Battery disconnect switch [] Oversize batteries				
[] Ether starting aid		<u>'</u>		
[] Heavy duty starting motors				
[] Barring device (manual)				
General • Right-hand service [] CSA certification	General	Right-hand service		
Paint - Caterpillar Yellow except rails and radiators [] CE Certificate of Conformance				
			[] Seismic Certification per Applicable Building Codes:	
• SAE standard rotation IBC 2000, IBC 2003, IBC 2006, IBC 2009, CBC 2007				
• Flywheel and flywheel housing - SAE No. 00 * Not included with packages without radiators				

50 Hz 1500 rpm 400 Volts



SPECIFICATIONS

CAT GENERATOR

Cat Generator
Frame size
ExcitationInternal Excitation
Pitch
Number of poles4
Number of bearings Single bearing
Number of Leads006
InsulationUL 1446 Recognized Class H with
tropicalization and antiabrasion - Consult your Caterpillar dealer for available voltages
IP RatingIP23
AlignmentPilot Shaft
Overspeed capability150
Wave form Deviation (Line to Line)002.00
Voltage regulator3 Phase sensing with selectible
volts/Hz Voltage regulationLess than +/- 1/2% (steady state)
Less than +/- 1% (no load to full load)
Telephone influence factorLess than 50
Harmonic DistortionLess than 5%

CAT DIESEL ENGINE

3512 TA, V-12, 4-Stroke Wate	cooled Diesel		
Bore	170.00 mm (6.69 in)		
Stroke	190.00 mm (7.48 in)		
Displacement	51.80 L (3161.03 in ³)		
Compression Ratio	13.5:1		
Aspiration	TA		
Fuel System	Direct unit injection		
Governor Type	Woodward		

CAT EMCP 4 SERIES CONTROLS

EMCP 4 controls including:

- Run / Auto / Stop Control
- Speed and Voltage Adjust
- Engine Cycle Crank
- 24-volt DC operation
- Environmental sealed front face
- Text alarm/event descriptions

Digital indication for:

- RPM
- DC volts
- Operating hours
- Oil pressure (psi, kPa or bar)
- Coolant temperature
- Volts (L-L & L-N), frequency (Hz)
- Amps (per phase & average)
- ekW, kVA, kVAR, kW-hr, %kW, PF

Warning/shutdown with common LED indication of:

- Low oil pressure
- High coolant temperature
- Overspeed
- Emergency stop
- Failure to start (overcrank)
- Low coolant temperature
- Low coolant level

Programmable protective relaying functions:

- Generator phase sequence
- Over/Under voltage (27/59)
- Over/Under Frequency (81 o/u)
- Reverse Power (kW) (32)
- Reverse reactive power (kVAr) (32RV)
- Overcurrent (50/51)

Communications:

- Six digital inputs (4.2 only)
- Four relay outputs (Form A)
- Two relay outputs (Form C)
- Two digital outputs
- Customer data link (Modbus RTU)
- Accessory module data link
- Serial annunciator module data link
- Emergency stop pushbutton

Compatible with the following:

- Digital I/O module
- Local Annunciator
- Remote CAN annunciator
- Remote serial annunciator

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TECHNICAL DATA

Open Generator Set 1500 rpm/50 Hz/400 Volts		DM8222	
Low Fuel Consumption			
Generator Set Package Performance			
Genset Power rating @ 0.8 pf	1275 kVA		
Genset Power rating with fan	1020 ekW		
Coolant to aftercooler			
Coolant to aftercooler temp max	82 ° C	180 ° F	
Fuel Consumption			
100% load with fan	264.6 L/hr	69.9 Gal/hr	
75% load with fan	203.2 L/hr	53.7 Gal/hr	
50% load with fan	140.8 L/hr	37.2 Gal/hr	
Cooling System ¹			
Air flow restriction (system)	0.12 kPa	0.48 in. water	
Air flow (max @ rated speed for radiator arrangement)	1246 m³/min	44002 cfm	
Engine Coolant capacity with radiator/exp. tank	286.8 L	75.8 gal	
Engine coolant capacity	156.8 L	41.4 gal	
Radiator coolant capacity	130.0 L	34.3 gal	
Inlet Air			
Combustion air inlet flow rate	92.0 m³/min	3249.0 cfm	
Exhaust System			
Exhaust stack gas temperature	449.2 ° C	840.6 ° F	
Exhaust gas flow rate	231.8 m³/min	8185.9 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)	616 kW	35032 Btu/min	
Heat rejection to exhaust (total)	1016 kW	57780 Btu/min	
Heat rejection to aftercooler	159 kW	9042 Btu/min	
Heat rejection to atmosphere from engine	115 kW	6540 Btu/min	
Heat rejection to atmosphere from generator	49.2 kW	2798.0 Btu/min	
Alternator ²			
Motor starting capability @ 30% voltage dip	3087 skVA		
Frame	1445		
Temperature Rise	125 ° C	225 ° F	
Lube System			
Sump refill with filter	310.4 L	82.0 gal	

For ambient and altitude capabilities consult your Cat dealer. Air flow restriction (system) is added to existing restriction from factory.

² 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.

50 Hz 1500 rpm 400 Volts



RATING DEFINITIONS AND CONDITIONS

Meets or Exceeds International Specifications: AS1359, CSA, IEC60034-1, ISO3046, ISO8528, NEMA MG 1-22, NEMA MG 1-33, UL508A, 72/23/EEC, 98/37/EC, 2004/108/EC

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 ekW 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 ambients shown indicate ambient temperature at 100% load which results in a coolant top tank temperature just below the alarm temperature.

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 Cat representative for details. For information regarding Low Sulfur fuel and Biodiesel capability, please consult your Cat dealer.

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DIMENSIONS

Package Dimensions				
Length	5237.1 mm	206.18 in		
Width	1974.8 mm	77.75 in		
Height	2367.2 mm	93.2 in		
Weight	12 398 kg	27,333 lb		

NOTE: For reference only - do not use for installation design. Please contact your local dealer for exact weight and dimensions. (General Dimension Drawing #).

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