# **Diesel Generator Set**





Image shown may not reflect actual package

# **PRIME** 880 ekW 1100 kVA 50 Hz 1500 rpm 400 Volts

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

#### **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.

#### **UL 2200**

• UL 2200 packages available. Certain restrictions may apply. Consult with your Cat dealer.

#### **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

### SINGLE-SOURCE SUPPLIER

 Fully prototype tested with certified torsional vibration analysis available

#### WORLDWIDE PRODUCT SUPPORT

- Cat<sup>®</sup> 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<sup>®</sup> SOS<sup>SM</sup> program effectively detects internal engine component condition, even the presence of unwanted fluids and combustion by products.

### **CAT C32 ATAAC DIESEL ENGINE**

- Utilizes ACERT<sup>TM</sup> Technology
   Reliable, rugged, durable design
- Four-stroke diesel engine combines consistent performance and excellent fuel economy with minimum weight

#### **CAT GENERATOR**

- Matched to the performance and output characteristics of Caterpillar engines
- Single point access to accessory connections
- UL 1446 Recognized Class H insulation

#### **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**

System	Standard	Optional
Air Inlet	Single element canister type air cleaner with service indicator	[ ] Dual element air cleaners
Cooling	Package mounted radiator	
Exhaust	Exhaust flange outlet	[ ] Mufflers
Fuel	Secondary fuel filters     Fuel cooler     Fuel priming pump	
Generator	Matched to the performance and output characteristics of Cat engines	[ ] Oversize & premium generators     [ ] Permanent magnet excitation (PMG)     [ ] Internal excitation (IE)     [ ] Winding temperature detectors     [ ] Anti-condensation space heaters
Power Termination	Bus bar	[ ] Circuit breakers, UL listed [ ] Circuit breakers, IEC listed [ ] Bottom cable entry [ ] Right, left, and/or rear power termination
Governor	• ADEM™ A4	[ ] Load share module
Control Panel	• EMCP 4	[ ] EMCP 4.2 [ ] EMCP 4.3 [ ] EMCP 4.4 [ ] Local & remote annunciator modules [ ] Digital I/O Module [ ] Generator temperature monitoring & protection
Mounting		Rubber vibration isolators     Spring type vibration isolator     IlBC seismic certification
Starting / Charging	24 volt starting motor(s)     Battery disconnect switch	<ul> <li>[ ] Battery charger</li> <li>[ ] Charging alternator</li> <li>[ ] Batteries with rack</li> <li>[ ] Oversize batteries</li> <li>[ ] Ether starting aids</li> <li>[ ] Heavy duty starting motors</li> <li>[ ] Barring device (manual)</li> <li>[ ] Jacket water heater</li> </ul>
General	Paint – Caterpillar Yellow except rails and radiators gloss black	[ ] UL 2200 listed [ ] CSA Certification

50 Hz 1500 rpm 400 Volts

#### SPECIFICATIONS

#### CAT GENERATOR

Frame	1424
Excitation	IE
Pitch	0.6667
Number of poles	4
Number of leads	
Number of bearings	Single Bearing
Insulation	
IP rating	Drip proof IP23
Over speed capability - % of rated	125%
Wave form deviation	2 %
Voltage regulator	3 phase sensing
Voltage regulationLess than ±1/29	
Less than ±1/2% (3%	6 speed change)

#### **CAT DIESEL ENGINE**

C32 ATAAC, V-12, 4 stroke, water-cooled diesel

Bore	145.00 mm (5.71 in)
Stroke	162.00 mm (6.38 in)
Displacement	32.10 (1958.86 in <sup>3</sup> )
Compression ratio	
Aspiration	
Fuel system	
Governor Type	

#### **CAT EMCP 4 CONTROL PANELS**

EMCP 4 controls including:

- Run / Auto / Stop Control
- Speed & Voltage Adjust
- Engine Cycle Crank
- Emergency stop pushbutton

#### EMCP 4.2 controller features:

- 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)
- Power Factor (per phase & average)
- kW (per phase, average & percent)
- kVA (per phase, average & percent)
- kVAr (per phase, average & percent)
- kW-hr & kVAr-hr (total)

Warning/shutdown with common LED indication of shutdowns for:

- 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

- Customer data link (Modbus RTU)
- Accessory module data link
- Serial annunciator module data link
- 6 programmable digital inputs
- 4 programmable relay outputs (Form A)
- 2 programmable relay outputs (Form C)
- 2 programmable digital outputs

Compatible with the following optional modules:

- Digital I/O module
- Local Annunciator
- Remote annunciator
- RTD module
- Thermocouple module

50 Hz 1500 rpm 400 Volts

### **Technical Data**



Construct   Construction   Constru	Open Generator Set - 1500 rpm/50 Hz/400 Volts		
Genset Power rating @ 0.8 pf   1100 kVA   880 ekW			
Genset Power rating @ 0.8 pf   1100 kVA   880 ekW			
Genset Power Rating with fan   880 ekW	Generator Set Package Performance		
Fuel Consumption         220.7 L/hr         58.3 Gal/hr           75% Load with fan         220.7 L/hr         43.5 Gal/hr           75% Load with fan         164.6 L/hr         43.5 Gal/hr           50% Load with fan         164.6 L/hr         43.5 Gal/hr           50% Load with fan         30.7 Gal/hr           Cooling System¹           Air flow restriction (system)         0.12 kPa         0.48 in. water           Air flow (max @ rated speed for radiator arrangement)         883.0 m3/min         31182 cfm           Engine coolant capacity with radiator         403.5 L         106.6 gal           Engine coolant capacity         233.2 L         61.6 gal           Radiator coolant capacity         170.3 L         45.0 gal           Inlet Air         Combustion air inlet flow rate         67.9 m³/min         2397.4 cfm           Exhaust System         Exhaust stack gas temperature (engine out)         440.7 °C         825.2 °F           Exhaust gas flow rate         170.3 m³/min         6012.6 cfm           Exhaust system backpressure (maximum allowable)         10 kPa         40.2 in water           Heat Rejection         308.4 kW         17537 Btu/min           Heat rejection to coolant         308.4 kW         17537 Btu/min           Heat rejection t	Genset Power rating @ 0.8 pf	1100 kVA	
100% Load with fan   220.7 L/hr   58.3 Gal/hr   75% Load with fan   164.6 L/hr   43.5 Gal/hr   30.7 Gal/hr   43.5 Gal/hr   30.7 Gal/hr   30.8 Gal/hr   30.	Genset Power Rating with fan	880 ekW	
75% Load with fan	Fuel Consumption		
S0% Load with fan	100% Load with fan	220.7 L/hr	58.3 Gal/hr
Cooling System¹         0.12 kPa         0.48 in. water           Air flow (max @ rated speed for radiator arrangement)         883.0 m3/min         31182 cfm           Engine coolant capacity with radiator         403.5 L         106.6 gal           Radiator coolant capacity         233.2 L         61.6 gal           Radiator coolant capacity         170.3 L         45.0 gal           Inlet Air         67.9 m³/min         2397.4 cfm           Exhaust System         25.2 °F           Exhaust System         2397.4 cfm           Exhaust gas flow rate         170.3 m³/min         6012.6 cfm           Exhaust gas flow rate         170.3 m³/min         6012.6 cfm           Exhaust gas flow rate         170.3 m³/min         6012.6 cfm           Exhaust system backpressure (maximum allowable)         10 kPa         40.2 in water           Heat Rejection         308.4 kW         17537 Btu/min           Heat rejection to coolant         431.9 kW         24558 Btu/min           Heat rejection to atmosphere from engine         444.3 kW         24558 Btu/min           Heat rejection to atmosphere from generator         43.4 kW         2470 Btu/min           Alternator²         2883 skVA           Frame         1424         125 °C         225 °F <t< td=""><td>75% Load with fan</td><td>164.6 L/hr</td><td>43.5 Gal/hr</td></t<>	75% Load with fan	164.6 L/hr	43.5 Gal/hr
Air flow restriction (system)  Air flow (max @ rated speed for radiator arrangement)  Engine coolant capacity with radiator  Engine coolant capacity with radiator  Engine coolant capacity  Engine coolant capacity  233.2 L  61.6 gal  170.3 L  45.0 gal  Inlet Air  Combustion air inlet flow rate  Exhaust System  Exhaust sas flow rate  Exhaust gas flow rate  Exhaust gas flow rate  Exhaust gas flow rate  Exhaust flange size  Exhaust system backpressure (maximum allowable)  Heat rejection  Heat rejection to coolant  Heat rejection to atmosphere from engine  Heat rejection to atmosphere from engine  Heat rejection to atmosphere from generator  Alternator²  Motor starting capabiliy @30% voltage dip  Frame  Temperature Rise  Emissions (Nominal)³  NOx g/hp-hr  CO g/hp-hr  CO g/hp-hr  O.01 g/hp-hr  O.01 g/hp-hr	50% Load with fan	116.2 L/hr	30.7 Gal/hr
Air flow (max @ rated speed for radiator arrangement)  Engine coolant capacity with radiator  Engine coolant capacity  Radiator coolant capacity  Radiator coolant capacity  Radiator coolant capacity  Inlet Air  Combustion air inlet flow rate  Exhaust System  Exhaust stack gas temperature (engine out)  Exhaust gas flow rate  Exhaust flange size  Exhaust flange size  Exhaust system backpressure (maximum allowable)  Heat Rejection  Heat rejection to cooolant  Heat rejection to atmosphere from engine  Heat rejection to atmosphere from generator  Alternator²  Motor starting capabiliy @30% voltage dip  Frame  Temperature Rise  Emissions (Nominal)³  NOx g/hp-hr  CO g/hp-hr  HC g/hp-hr  CO g/hp-hr  Log gla  106.6 gal  403.5 L  106.6 gal  440.7 °C  825.2 °F  826.2 Sab.W  10 kPa  40.2 in water  40.2 in wa	Cooling System <sup>1</sup>		
Engine coolant capacity with radiator  Engine coolant capacity  Radiator coolant capacity  Radiator coolant capacity  Radiator coolant capacity  Inlet Air  Combustion air inlet flow rate  Exhaust System  Exhaust stack gas temperature (engine out)  Exhaust gas flow rate  Exhaust gas flow rate  Exhaust glange size  Exhaust system backpressure (maximum allowable)  Heat Rejection  Heat rejection to coolant  Heat rejection to exhaust (total)  Heat rejection to affercooler  Heat rejection to atmosphere from engine  Heat rejection to atmosphere from generator  Alternator²  Motor starting capabiliy @30% voltage dip  Frame  Temperature Rise  Emissions (Nominal)³  NOx g/hp-hr  CO g/hp-hr  HC g/hp-hr  106.6 gal  233.2 L 61.6 gal  61.6 ga	Air flow restriction (system)	0.12 kPa	0.48 in. water
Engine coolant capacity	Air flow (max @ rated speed for radiator arrangement)	883.0 m3/min	31182 cfm
Radiator coolant capacity   170.3 L	Engine coolant capacity with radiator	403.5 L	106.6 gal
Inlet Air Combustion air inlet flow rate  Exhaust System  Exhaust stack gas temperature (engine out)  Exhaust stack gas temperature (engine out)  Exhaust stack gas temperature (engine out)  Exhaust gas flow rate  Exhaust flange size  Exhaust flange size  Exhaust system backpressure (maximum allowable)  Heat Rejection  Heat rejection to cooolant  Heat rejection to exhaust (total)  Heat rejection to aftercooler  Heat rejection to atmosphere from engine  Heat rejection to atmosphere from generator  Alternator <sup>2</sup> Motor starting capability @30% voltage dip  Frame  Temperature Rise  Lube System  Sump refil with filter  99 L  26.2 gal  Emissions (Nominal) <sup>3</sup> NOx g/hp-hr  CO g/hp-hr  HC g/hp-hr  O.01 g/hp-hr	Engine coolant capacity	233.2 L	61.6 gal
Combustion air inlet flow rate  Exhaust System  Exhaust stack gas temperature (engine out)  Exhaust gas flow rate  Exhaust gas flow rate  Exhaust flange size  Exhaust system backpressure (maximum allowable)  Heat Rejection  Heat rejection to cooolant  Heat rejection to aftercooler  Heat rejection to atmosphere from engine  Heat rejection to atmosphere from generator  Alternator²  Motor starting capability @30% voltage dip  Frame  Temperature Rise  Emissions (Nominal)³  NOx g/hp-hr  CO g/hp-hr  HC g/hp-hr  Frame  Fixhaust System  Sump refil with filter  Exhaust system backpressure (engine out)  440.7 °C 825.2 °F 825.2 °F 825.2 °F 825.2 °F 825.2 °F 825.2 °F 826.2 °F 825.2 °F 826.2	Radiator coolant capacity	170.3 L	45.0 gal
Exhaust System  Exhaust stack gas temperature (engine out)  Exhaust gas flow rate  Exhaust gas flow rate  Exhaust flange size  Exhaust system backpressure (maximum allowable)  Heat Rejection  Heat rejection to cooolant  Heat rejection to aftercooler  Heat rejection to atmosphere from engine  Heat rejection to atmosphere from generator  Alternator²  Motor starting capabiliy @30% voltage dip  Frame  Temperature Rise  Lube System  Sump refil with filter  Sylp-hr  CO g/hp-hr  HC g/hp-hr  170.3 m³/min  6012.6 cfm  203.2 mm  8 in  244.2 to sylp-in  434.9 kW  24558 Btu/min  434.9 kW  24558 Btu/min  444.3 kW  25261 Btu/min  434.4 kW  2470 Btu/min  432.4 to sylp-hr  142.4 to sylp-hr  142.4 to sylp-hr  6.15 g/hp-hr  0.42 g/hp-hr  0.01 g/hp-hr	Inlet Air		
Exhaust stack gas temperature (engine out)  Exhaust gas flow rate  Exhaust gas flow rate  Exhaust flange size  Exhaust system backpressure (maximum allowable)  Heat Rejection  Heat rejection to cooolant  Heat rejection to exhaust (total)  Heat rejection to affercooler  Heat rejection to atmosphere from engine  Heat rejection to atmosphere from generator  Alternator²  Motor starting capabiliy @30% voltage dip  Frame  Temperature Rise  Lube System  Sump refil with filter  Sumb refil with filter  Part of the starting sylven in the starting sylven in the sylve	Combustion air inlet flow rate	67.9 m³/min	2397.4 cfm
Exhaust gas flow rate Exhaust flange size Exhaust system backpressure (maximum allowable)  Heat Rejection Heat rejection to cooolant Heat rejection to exhaust (total) Heat rejection to aftercooler Heat rejection to atmosphere from engine Heat rejection to atmosphere from generator  Alternator² Motor starting capabiliy @30% voltage dip Frame Temperature Rise  Lube System Sump refil with filter  Exhaust gas flow rate  170.3 m³/min 6012.6 cfm 8 in 203.2 mm 8 in 40.2 in water  40.2 in water  43.4 kW 17537 Btu/min 431.9 kW 24558 Btu/min 196.5 kW 11173 Btu/min 444.3 kW 25261 Btu/min 43.4 kW 2470 Btu/min  Alternator²  Motor starting capabiliy @30% voltage dip Frame 1424 Temperature Rise 125 °C 225 °F  Lube System Sump refil with filter 99 L 26.2 gal  Emissions (Nominal)³ NOx g/hp-hr CO g/hp-hr HC g/hp-hr HC g/hp-hr	Exhaust System		
Exhaust flange size Exhaust system backpressure (maximum allowable)  Heat Rejection Heat rejection to cooolant Heat rejection to exhaust (total) Heat rejection to aftercooler Heat rejection to aftercooler Heat rejection to atmosphere from engine Heat rejection to atmosphere from generator  Alternator <sup>2</sup> Motor starting capability @30% voltage dip Frame Temperature Rise  Lube System Sump refil with filter  Page L  203.2 mm 8 in 10 kPa 40.2 in water  43.4 kW 17537 Btu/min 196.5 kW 11173 Btu/min 196.5 kW 11173 Btu/min 444.3 kW 25261 Btu/min 43.4 kW 2470 Btu/min  2883 skVA Frame 1424 Temperature Rise 125 °C 225 °F  Lube System Sump refil with filter 99 L 26.2 gal  Emissions (Nominal) <sup>3</sup> NOx g/hp-hr CO g/hp-hr HC g/hp-hr HC g/hp-hr	Exhaust stack gas temperature (engine out)	440.7 °C	825.2 °F
Exhaust system backpressure (maximum allowable)  Heat Rejection  Heat rejection to cooolant  Heat rejection to exhaust (total)  Heat rejection to aftercooler  Heat rejection to atmosphere from engine  Heat rejection to atmosphere from generator  Alternator <sup>2</sup> Motor starting capability @30% voltage dip  Frame  Temperature Rise  Lube System  Sump refil with filter  Sump refil with filter  Particular of the starting of the start	Exhaust gas flow rate	170.3 m <sup>3</sup> /min	6012.6 cfm
Heat Rejection Heat rejection to cooolant Heat rejection to exhaust (total) Heat rejection to aftercooler Heat rejection to aftercooler Heat rejection to aftercooler Heat rejection to atmosphere from engine Heat rejection to atmosphere from generator Heat rejection to atmosphere from generator  Alternator <sup>2</sup> Motor starting capabiliy @30% voltage dip Frame Temperature Rise  Lube System Sump refil with filter  Bulk System Sump refil with filter  Pyp L  26.2 gal  Emissions (Nominal) <sup>3</sup> NOx g/hp-hr CO g/hp-hr HC g/hp-hr HC g/hp-hr  0.01 g/hp-hr	Exhaust flange size	203.2 mm	8 in
Heat rejection to cooolant Heat rejection to exhaust (total) Heat rejection to aftercooler Heat rejection to aftercooler Heat rejection to atmosphere from engine Heat rejection to atmosphere from engine Heat rejection to atmosphere from generator  Alternator <sup>2</sup> Motor starting capability @30% voltage dip Frame Temperature Rise  Lube System Sump refil with filter  Sump refil with filter  Emissions (Nominal) <sup>3</sup> NOx g/hp-hr CO g/hp-hr HC g/hp-hr HC g/hp-hr  0.01 g/hp-hr	Exhaust system backpressure (maximum allowable)	10 kPa	40.2 in water
Heat rejection to exhaust (total)  Heat rejection to aftercooler  Heat rejection to aftercooler  Heat rejection to atmosphere from engine  Heat rejection to atmosphere from engine  Heat rejection to atmosphere from generator  Alternator <sup>2</sup> Motor starting capability @30% voltage dip  Frame  Temperature Rise  125 °C  225 °F  Lube System  Sump refil with filter  99 L  26.2 gal  Emissions (Nominal) <sup>3</sup> NOx g/hp-hr  CO g/hp-hr  HC g/hp-hr  0.01 g/hp-hr	Heat Rejection		
Heat rejection to aftercooler Heat rejection to atmosphere from engine Heat rejection to atmosphere from engine Heat rejection to atmosphere from generator  Alternator² Motor starting capabiliy @30% voltage dip Frame Temperature Rise  Lube System Sump refil with filter  Sump refil with filter  Emissions (Nominal)³ NOx g/hp-hr CO g/hp-hr HC g/hp-hr HC g/hp-hr	Heat rejection to cooolant	308.4 kW	17537 Btu/min
Heat rejection to atmosphere from engine Heat rejection to atmosphere from generator  Alternator² Motor starting capabiliy @30% voltage dip Frame Temperature Rise  Lube System Sump refil with filter  Sump refil with filter  Emissions (Nominal)³ NOx g/hp-hr CO g/hp-hr HC g/hp-hr HC g/hp-hr  444.3 kW 25261 Btu/min 43.4 kW 2470 Btu/min 2883 skVA 2470 Btu/min 2483 skVA 2470 Btu/min 2483 skVA 2470 Btu/min 25261 Btu/min 2470 Btu/min 2470 Btu/min 25261 Btu/min 2470 Btu/min 2470 Btu/min 2470 Btu/min 25261 Btu/min 2470 Btu/min 25261 Btu/min 2470 Btu/min 25261 Btu/min 2470 Btu/min 2470 Btu/min 25261 Btu/min 2470 Btu/min 2670 FT 2670	Heat rejection to exhaust (total)	431.9 kW	24558 Btu/min
Heat rejection to atmosphere from generator  Alternator <sup>2</sup> Motor starting capabiliy @30% voltage dip Frame Frame Temperature Rise  Lube System Sump refil with filter  Emissions (Nominal) <sup>3</sup> NOx g/hp-hr CO g/hp-hr HC g/hp-hr  NOx g/hp-hr  Oxeg 1 2470 Btu/min  43.4 kW 2470 Btu/min  43.4 kW 2470 Btu/min  43.4 kW 2470 Btu/min  43.4 kW 2470 Btu/min  62883 skVA  1424  125 °C 225 °F  26.2 gal	Heat rejection to aftercooler	196.5 kW	11173 Btu/min
Alternator <sup>2</sup> Motor starting capabiliy @30% voltage dip Frame Temperature Rise 125 °C 225 °F  Lube System Sump refil with filter 99 L 26.2 gal  Emissions (Nominal) <sup>3</sup> NOx g/hp-hr CO g/hp-hr HC g/hp-hr HC g/hp-hr  0.01 g/hp-hr	Heat rejection to atmosphere from engine	444.3 kW	25261 Btu/min
Motor starting capabiliy @30% voltage dip       2883 skVA         Frame       1424         Temperature Rise       125 °C       225 °F         Lube System       99 L       26.2 gal         Sump refil with filter       99 L       26.2 gal         Emissions (Nominal)³       6.15 g/hp-hr         NOx g/hp-hr       0.42 g/hp-hr         HC g/hp-hr       0.01 g/hp-hr	Heat rejection to atmosphere from generator	43.4 kW	2470 Btu/min
Frame       1424         Temperature Rise       125 °C       225 °F         Lube System       99 L       26.2 gal         Sump refil with filter       99 L       26.2 gal         Emissions (Nominal)³       6.15 g/hp-hr         NOx g/hp-hr       0.42 g/hp-hr         HC g/hp-hr       0.01 g/hp-hr	Alternator <sup>2</sup>		
Frame       1424         Temperature Rise       125 °C       225 °F         Lube System       99 L       26.2 gal         Sump refil with filter       99 L       26.2 gal         Emissions (Nominal)³       6.15 g/hp-hr         NOx g/hp-hr       0.42 g/hp-hr         HC g/hp-hr       0.01 g/hp-hr	Motor starting capabiliy @30% voltage dip	2883 skVA	
Lube System       99 L       26.2 gal         Sump refil with filter       99 L       26.2 gal         Emissions (Nominal)³       6.15 g/hp-hr         NOx g/hp-hr       0.42 g/hp-hr         HC g/hp-hr       0.01 g/hp-hr		1424	
Sump refil with filter       99 L       26.2 gal         Emissions (Nominal)³       6.15 g/hp-hr         NOx g/hp-hr       0.42 g/hp-hr         HC g/hp-hr       0.01 g/hp-hr	Temperature Rise	125 °C	225 °F
Sump refil with filter       99 L       26.2 gal         Emissions (Nominal)³       6.15 g/hp-hr         NOx g/hp-hr       0.42 g/hp-hr         HC g/hp-hr       0.01 g/hp-hr	·		
NOx g/hp-hr       6.15 g/hp-hr         CO g/hp-hr       0.42 g/hp-hr         HC g/hp-hr       0.01 g/hp-hr		99 L	26.2 gal
NOx g/hp-hr       6.15 g/hp-hr         CO g/hp-hr       0.42 g/hp-hr         HC g/hp-hr       0.01 g/hp-hr	·		
HC g/hp-hr 0.01 g/hp-hr		6.15 g/hp-hr	
HC g/hp-hr 0.01 g/hp-hr	CO g/hp-hr	0.42 g/hp-hr	
		·	

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

<sup>&</sup>lt;sup>2</sup> Generator temperature rise is basd on a 40 degree C ambient per NEMA M G1-32. UL 2200 Listed ppackages may have oversized generators with a different temperature rise and motor starting characteristics.

<sup>&</sup>lt;sup>3</sup>Emissions data measurement procedures are consistent with those described in EPA CFR 40 Part 89, Subpart D & E and ISO8178-1for measuring HC, CO, PM, NOx.

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. Emissions data is based on 100% load and thus cannot be used to compare to EPA regulations which use values based on a weighted cycle.

50 Hz 1500 rpm 400 Volts



### RATING DEFINITIONS AND CONDITIONS

#### **Applicable Codes and Standards:**

AS1359,CSAC22.2 No100-04, UL142,UL489, UL601, UL869, UL2200, NFPA37, NFPA70, NFPA99, NFPA110,IBC, IEC60034-1, ISO3046, ISO8528, NEMA MG1-22, NEMA MG1-33, 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.

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

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#### **DIMENSIONS**

Package Dimensions				
Length	4334 mm	170.6 in		
Width	2010 mm	79.1 in		
Height	2174 mm	85.6 in		

NOTE: For reference only - do not use for installation design. Please contact your local dealer for exact weight and dimensions.

www.Cat-EectricPower.com

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

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Feature Code: C32DR44

Gen. Arr. Number: 432-6118

Sourced: U.S. Sourced

EPD0273-A (01/14)