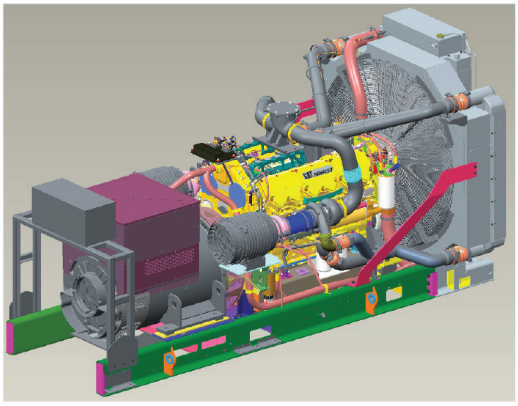

Image shown may not reflect actual configuration

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

Specifications

Generator Set Specifications	
Rating (ekW)	1000
Rating (kVA)	1250
Voltage	415 Volts
Frequency	50 Hz
Speed	1500 rpm

Generator Set Configurations	
Emissions/Fuel Strategy	Low Fuel Consumption

Engine Specifications	
Engine Model	C32 ACERT™ TA, V-12, 4-stroke Water-cooled Diesel
Bore	145 mm
Displacement	32.1 L
Stroke	162 mm
Compression Ratio	15.0:1
Aspiration	Turbocharged Aftercooled
Governor Type	ADEM™ A4
Fuel System	MEUI™

Benefits & Features

Cat® 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

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 Control Panel

The EMCP controller features the reliability and durability you have come to expect from your Cat equipment. EMCP 4 is a scalable control platform designed to ensure reliable generator set operation, providing extensive information about power output and engine operation. EMCP 4 systems can be further customized to meet your needs through programming and expansion modules.

Design Criteria

The Generator set meets transient and Block loading as per ISO 8528-5
Conforms to ISO 8528-5 G3 load acceptance requirements.

Standard Equipment

Air Inlet

- Air cleaner

Cooling

- Packaged-mounted radiator

Exhaust

- Exhaust muffler
- Exhaust flange outlet

Fuel

- Primary fuel filter with integral water separator
- Secondary fuel filter
- Fuel priming pump

Generator

- Matched to the performance and output characteristics of Cat engines
- Load adjustment module provides engine relief upon load impact and improves load acceptance and recovery time
- IP23 protection

Power Termination

- Bus bar

Control Panel

- EMCP 4.2 generator set controller

Mounting

- Rubber anti-vibration mounts

Starting/Charging

- Charging alternator

General

- 990 liter fuel tank
- Paint – Caterpillar Yellow except rails and heat radiators black

Optional Equipment

Generator

- Winding and bearing temperature detectors
- Anti-condensation heater
- Oversize and premium generators
- Coastal Insulation Protection

Control Panels

- EMCP 4.3 and EMCP 4.4
- Generator temperature monitoring and protection
- Load share module
- Digital I/O module
- Remote monitoring software

Starting/Charging

- Jacket water heater

General

- The following options are based on regional and product configuration:
  – Heavy-duty air cleaner
  – Option for remote mounting of UIP
  – Circuit breaker panel

Rating Type: Standby

Fuel Strategy: Low Fuel Consumption

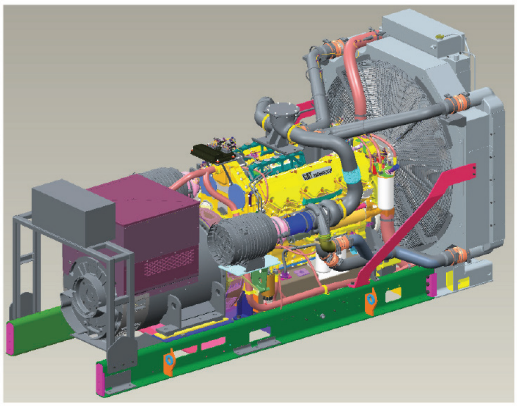

Image shown may not reflect actual configuration

C32 ACERT
1000 ekW/ 1250 kVA/50 Hz
1500 rpm/ 415V

Package Performance	
Generator Set Power Rating with Fan @ 0.8 Power Factor	1000 ekW
Generator Set Power Rating	1250 kVA
Aftercooler (separate circuit) type	ATAAC

Fuel Consumption	
100% Load with Fan	252.3 L/hr
75% Load with Fan	185.5 L/hr
50% Load with Fan	128.4 L/hr
25% Load with Fan	75 L/hr

Cooling System[1]	
Engine Coolant Capacity	55.0 L

Inlet Air	
Combustion Air Inlet Flow Rate	74.2 m³/min
Max. Allowable Combustion Air Inlet Temp	49°C

Rating Type: Standby **Fuel Strategy: Low Fuel Consumption**

Exhaust System	
Exhaust Stack Gas Temperature	464.6°C
Exhaust Gas Flow Rate	192.9 m³/min
Exhaust System Backpressure (maximum allowable)	6.7 kPa

Heat Rejection	
Heat Rejection to Jacket Water	340 kW
Heat Rejection to Exhaust (total)	871 kW
Heat Rejection to Aftercooler	241 kW
Heat Rejection to Atmosphere from Engine	139 kW
Heat Rejection to Atmosphere from Generator	50 kW

Alternator[2]	
Motor Starting Capability @ 30% Voltage Dip	3093 skVA
Current	1739 Amps
Frame Size	1424
Excitation	IE
Temperature Rise	150°C

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

[2] Generator temperature rise is based on a 40°C (104°F) ambient per NEMA MG1-32.

ELECTRIC POWER – Technical Spec Sheet
STANDARD

C32 ACERT™
1000 ekW/ 1250 kVA/ 50 Hz/ 1500 rpm/ 415V/ 0.8 Power Factor

Rating Type: Standby

Fuel Strategy: Low Fuel Consumption

DEFINITIONS AND CONDITIONS

Applicable Codes and Standards:
ISO3046, ISO8528, IEC60034-1, IS4722.

Note: Codes may not be available in all model configurations. Please consult your local Cat dealer representative for availability.

Standby: Output available with varying load for the duration of the interruption of the reliable power source,for a maximum of 500 hours per year. Standby power in accordance with ISO8528.

Ratings are based on SAE J1349 standard conditions. These ratings also apply at ISO 3046 standard conditions.

Fuel Rates are based on fuel oil of 35° API [16°C] gravity having an LHV of 42 780 kJ/kg when used at 29°C and weighing 838.9 g/liter.

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.

Performance No.: EM0679
Generator Arrangement:5120397
Date: 26/10/2018
Source Country: India

C32-1250kVA
LEHE1416-01 (10/18)