





Bore – mm (in)	170 (6.69)		
Stroke – mm (in)	190 (7.48)		
Displacement – L (in ³)	51.8 (3161.03)		
Compression Ratio	13.5:1		
Aspiration	ТА		
Fuel System	MUI		
Governor Type	Woodward		

Image shown may not reflect actual configuration

Prime-DCP 50 Hz kVA (ekW)	Emissions Performance		
1275 (1020)	Optimized for Low Fuel Consumption		
1150 (920)	Optimized for Low Fuel Consumption		

Features

Cat® Diesel Engine

- Designed and optimized for low fuel consumption
- Reliable performance proven in thousands of applications worldwide

Generator Set Package

- Accepts 100% block load in one step and meets
 NFPA 110 loading requirements
- Conforms to ISO 8528-5 G3 load acceptance requirements
- Reliability verified through torsional vibration, fuel consumption, oil consumption, transient performance, and endurance testing

Alternators

- Superior motor starting capability minimizes
 need for oversizing generator
- Designed to match performance and output characteristics of Cat diesel engines

Cooling System

- Cooling systems available to operate in ambient temperatures up to 50°C (122°F)
- · Tested to ensure proper generator set cooling

EMCP 4 Control Panels

- · User-friendly interface and navigation
- Scalable system to meet a wide range of installation requirements
- Expansion modules and site specific programming for specific customer requirements

Warranty

- 12 months/unlimited hour warranty for prime-DCP ratings
- Extended service protection is available to provide extended coverage options

Worldwide Product Support

- Cat dealers have over 1,800 dealer branch stores operating in 200 countries
- Your local Cat dealer provides extensive post-sale support, including maintenance and repair agreements

Financing

- Caterpillar offers an array of financial products to help you succeed through financial service excellence
- Options include loans, finance lease, operating lease, working capital, and revolving line of credit
- Contact your local Cat dealer for availability in your region



Standard and Optional Equipment

Engine

Air Cleaner

Single element
Dual element
Heavy duty

Muffler

□ Industrial grade (15 dB)

Starting

Standard batteries
 Oversized batteries
 Standard electric starter(s)
 Dual electric starter(s)
 Jacket water heater

Alternator

Output voltage

□ 380V □ 400V □ 415V

Temperature Rise

(over 40°C ambient)

□ 150°C
□ 125°C/130°C
□ 105°C
□ 80°C

Winding type

Random woundForm wound

Excitation

Internal excitation (IE)Permanent magnet (PM)

Attachments

□ Anti-condensation heater

Stator and bearing temperature monitoring and protection

Power Termination

Туре

Bus bar
Circuit breaker
2000A
2500A
3200A
IEC
3-pole
Electrically operated

Trip Unit

LSI LSI-G LSIG-P

Control System

Controller

EMCP 4.2B
EMCP 4.3
EMCP 4.4

Attachments

- Local annunciator module
 Remote annunciator module
 Expansion I/O module
- Remote monitoring software

Charging

Battery charger – 10A
 Battery charger – 20A
 Battery charger – 35A

Vibration Isolators

RubberSpring

Cat Connect

Connectivity

Ethernet
Cellular

Extended Service Options

Terms

2 year (prime)
 3 year
 5 year
 10 year

Coverage

- Silver
 Gold
 Platinum
- Platinum Plus

Ancillary Equipment

- Automatic transfer switch (ATS)
 Paralleling switchgear
- Paralleling controls

Certifications

- □ Telecomm Lab of China (TLC)
- □ EU Declaration of Conformity
- □ EU Declaration of Incorporation
- Lurasian Conformity (EAC)

Note: Some options may not be available on all models. Certifications may not be available with all model configurations. Consult factory for availability.



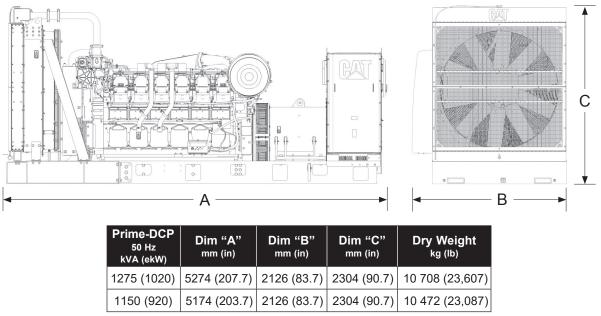
Package Performance

Performance	Prim	e-DCP	Prim	e-DCP
Frequency	50 Hz		50 Hz	
Gen set power rating with fan	1020 ekW		920 ekW	
Gen set power rating with fan @ 0.8 power factor	1275 kVA		1150 kVA	
Emissions	Low Fuel		Low Fuel	
Performance number	EM5995-01		EM5994-01	
Fuel Consumption				
100% load with fan – L/hr (gal/hr)	256.1	(67.7)	234.1	(61.8)
75% load with fan – L/hr (gal/hr)	196.6	(51.9)	179.3	(47.4)
50% load with fan – L/hr (gal/hr)	136.3	(36.0)	125.0	(33.0)
25% load with fan – L/hr (gal/hr)	78.2	(20.7)	72.9	(19.3)
Cooling System				
Radiator air flow restriction (system) – kPa (in. water)	0.12	(0.48)	0.12	(0.48)
Radiator air flow – m³/min (cfm)	1106	(39058)	928	(32772)
Engine coolant capacity – L (gal)	156.8	(41.4)	156.8	(41.4)
Radiator coolant capacity – L (gal)	130.0	(34.0)	130.0	(34.0)
Total coolant capacity – L (gal)	286.8	(75.4)	286.8	(75.4)
Inlet Air				
Combustion air inlet flow rate – m³/min (cfm)	92.0	(3248.5)	84.0	(2966.0)
Exhaust System				
Exhaust stack gas temperature – °C (°F)	453.2	(847.8)	451.3	(844.3)
Exhaust gas flow rate – m³/min (cfm)	231.8	(8184.9)	212.5	(7503.3)
Exhaust system backpressure (maximum allowable) – kPa (in. water)	6.7	(26.9)	6.7	(26.9)
Heat Rejection				
Heat rejection to jacket water – kW (Btu/min)	616	(35030)	556	(31618)
Heat rejection to exhaust (total) – kW (Btu/min)	1016	(57778)	916	(52090)
Heat rejection to aftercooler – kW (Btu/min)	159	(9041)	125	(7108)
Heat rejection to atmosphere from engine – kW (Btu/min)	115	(6540)	111	(6313)
Heat rejection from alternator – kW (Btu/min)	49	(2798)	45	(2582)
Emissions* (Nominal)				
NOx mg/Nm ³ (g/hp-h)	3501.8	(8.62)	3721.2	(9.12)
CO mg/Nm³ (g/hp-h)	919.2	(2.26)	882.2	(2.16)
HC mg/Nm³ (g/hp-h)	74.3	(0.18)	92.9	(0.23)

*mg/Nm³ levels are corrected to 5% O₂. Contact your local Cat dealer for further information.



Weights and Dimensions



Note: For reference only. Do not use for installation design. Contact your local Cat dealer for precise weights and dimensions.

Ratings Definitions

Prime-DCP

For data center applications only. Prime-DCP power output available with varying load for unlimited time. Average power output is not to exceed 100% of prime-DCP rated ekW. Typical peak demand is 100% of the prime-DCP 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.

Applicable Codes and Standards

AS 1359, IBC, IEC 60034-1, ISO 3046, ISO 8528, NEMA MG1-22, NEMA MG1-33, 2014/35/EU, 2006/42/EC, 2014/30/EU and facilitates compliance to NFPA 37, NFPA 70, NFPA 99, NFPA 110.

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

Data Center Applications

- ISO 8528-1 Data Center Power (DCP) compliant per Cat diesel generator set prime-DCP rating.
- All ratings Tier III/Tier IV compliant per Uptime Institute requirements.
- All ratings ANSI/TIA-942 compliant for Rated-1 through Rated-4 data centers.

Fuel Rates

Fuel consumption reported in accordance with ISO 3046-1, 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 15°C (59°F) and weighing 850 g/liter (7.0936 lbs/U.S. gal.) All fuel consumption values refer to rated engine power.

www.cat.com/electricpower

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