



Bore – mm (in)	170 (6.7)		
Stroke – mm (in)	190 (7.5)		
Displacement – L (in ³)	69.0 (4211)		
Aspiration	Turbocharged		
Fuel System	Electronic Fuel Control Valve		
Governor Type	ADEM™ A4		

Image shown may not reflect actual configuration

	Fuel Type	ekW (kVA)	Compression Ratio	Engine Speed – rpm
Continuous 60 Hz	Natural Gas	1300 (1625)	11.0:1	1800

Standard Features

Cat[®] Engine

- Robust high speed block design provides prolonged life and lower owning and operating costs
- Designed for maximum performance on low pressure gaseous fuel supply
- Conservative power density for reliability and long operational life span
- High percentage of component commonality with diesel engines

Generator Set Package

 Reliability verified through torsional vibration, fuel consumption, oil consumption, transient performance, and endurance testing

Generators

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

Applications

• Caterpillar generator sets are capable of maximizing power production opportunities in an extensive range of industries

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 warrantyfor continuous 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



Engine

Air System

Air inlet adapter

Cooling System

Mechanical joint assembly

Exhaust System

- ElbowsExpanders
- □ Flanges
- □ Flexible fittings

Fuel System

- Fuel filter shipped loose
- Fuel regulator shipped loose

General

Barring group

Lubrication

- Lubricating oil (NGEO)
- Oil level regulator
- Electric prelube
- Positive crankcase ventilation
- Duplex oil filter

Mufflers

- Industrial Grade (15dB)
 Residential Grade (18dB)
 Critical Grade (25dB)
- □ Spark Arresting

Protection System

Explosion Relief Valves

Starting/Charging

- Charging alternator 60A
- Battery charger 20A
- Battery charger 10A
- Oversized batteries
- Battery cables / racks
- □ Air starters
- Jacket water heater

Generators

Output voltage

380V
440V
480V
600V
2400V
4160V

Temperature Rise (over 40°C ambient)

□ 105°C □ 80°C

Attachments

Anti-condensation heater
 Generator RTD module
 Neutral Ground

Power Termination

Туре

NEMA Bus barCircuit breaker

Circuit Breaker Options

1600A
2000A
UL IEC
3-pole 4-pole
Manually operated
Electrically operated

Trip Unit Options

□ LSI □ LSI-G □ LSIG-P

Cat Connect

Connectivity

- Ethernet
- □ Satellite
- □ Cell

Control System

Controller

- □ EMCP 4.3
- EMCP 4.4 Attachments
- Discrete I/O module
- Load share module
- Local annunciator module
- □ Remote annunciator module
- Remote monitoring software

Vibration Isolators

- Rubber
- Spring
- □ Seismic rated

Enclosure

- Weather protective
- Sound attenuated

Attachments

- Cold weather bundle
- DC lighting package
- AC lighting package
- Motorized louvers

Ancillary Equipment

- Automatic transfer switch (ATS)
- Uninterruptible power supply (UPS)
- D Paralleling switchgear
- Paralleling controls





60 Hz Standard Package Performance – AC and JW Pumps

Performance		Continuous			
Frequency		60 Hz			
Genset power rating @ 0.8 power factor - ekW (kVA)	1300	(1625)	1300	(1625)	
Engine speed – rpm	18	1800		1800	
Emissions – mg/Nm ³ (g/bhp-hr) NOx	205	(0.5)	429	(1.0)	
Performance number	DM56	DM5643-03		DM5645-03	
Fuel Consumption					
100% load with fan – MJ/ekW-hr (Btu/ekW-hr)	10.51	(9965)	10.23	(9704)	
75% load with fan – MJ/ekW-hr (Btu/ekW-hr)	10.98	(10415)	10.60	(10046)	
50% load with fan – MJ/ekW-hr (Btu/ekW-hr)	11.64	(11036)	11.50	(10900)	
Cooling System					
Auxiliary circuit temperature (maximum inlet) - °C (°F)	54	(130)	54	(130)	
Jacket water temperature (maximum outlet) – °C (°F)	92	(198)	92	(198)	
Inlet Air					
Combustion air inlet flow rate (0°C, 101.3 kPa)/(77°F, 14.7 psia) – Nm³/bkW-hr (ft³/min)	4.73	(4121)	4.51	(3932)	
Altitude Capability					
At 25°C (77°F) ambient, above sea level – m (ft)	682	(2238)	903	(2963)	
Exhaust System					
Exhaust temperature – engine outlet – °C (°F)	523	(974)	530	(986)	
Exhaust gas flow (0°C, 101.3 kPa, 14.5psia) – Nm³/bkW-hr (ft³/min)	5.03	(11850)	4.80	(11418)	
Exhaust gas mass flow – kg/bkW-hr (lb/hr)	6.34	(18939)	6.05	(18086)	
Heat Rejection					
Heat rejection to jacket water – kW (Btu/min)	504	(28688)	491	(27939	
Heat rejection to exhaust (LHV to 120°C/248°F) – kW (Btu/min)	1086	(61754)	1056	(60078)	
Heat rejection to auxiliary circuit – kW (Btu/min)	140	(7961)	124	(7052)	
Heat rejection to atmosphere from engine and generator – kW (Btu/min)	186	(10565)	186	(10565)	
Heat rejection to jacket water circuit (JW+OC+AC1) – kW (Btu/min)	799	(45469)	774	(44029)	



Weights and Dimensions



Dim "A"	Dim "B"	Dim "C"	Dry Weight
mm (in)	mm (in)	mm (in)	_{kg (lb)}
5519.10 (217.28)	2180.20 (85.83)	2402.00 (94.56)	12618 (27823)

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

Ratings Definitions

Continuous

Output available with non-varying load for an unlimited time. Average power output is 70-100% of the continuous power rating. Typical peak demand is 100% of continuous rated ekW for 100% of operating hours.

Applicable Codes and Standards

AS1359, CSA C22.2 No100-04, UL142, UL489, UL869, UL2200, NFPA37, NFPA70, NFPA99, NFPA110, IEC60034-1, ISO3046, ISO8528, NEMA MG1-22, NEMA MG1-33, 2006/95/EC, 2006/42/EC, 2004/108/EC.

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

Fuel Rates

- 1. For transient response, ambient, and altitude capabilities consult your local Catdealer.
- 2. Fuel pressure range specified is to the engine fuel control valve. Additional fuel train components may be required and should be considered in pressure and flow calculations.
- 3. For a complete reference of definitions and conditions see the followingdatasheets
 - a. 60 Hz 1300ekw Continuous /Standard (W/ Pumps) DM5643-03 (0.5g/bhp-hr NOx) - SCAC IN/OUT: 130/198°F
 - b. 60 Hz 1300ekw Continuous /Standard (W/ Pumps) DM5645-03 (1.0g/bhp-hr NOx) - SCAC IN/OUT: 130/198°F

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

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