

STANDBY 240 kW CONTINUOUS 190 kW

60 Hz

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

FEATURES

FULL RANGE OF ATTACHMENTS

- Wide range of bolt-on system expansion attachments, factory designed and tested

SINGLE-SOURCE SUPPLIER

- **Fully Prototype Tested** with certified torsional vibration analysis available

WORLDWIDE PRODUCT SUPPORT

- Worldwide parts availability through the Caterpillar dealer network
- With over 1,200 dealer outlets operating in 166 countries, you're never far from the Caterpillar part you need.
- 99.5% of parts orders filled within 48 hours. The best product support record in the industry.
- Caterpillar dealer service technicians are trained to service every aspect of your electric power generation system.
- Preventive maintenance agreements
- The Cat Scheduled Oil Sampling (S•O•SSM) program cost effectively detects internal engine component condition, even the presence of unwanted fluids and combustion by-products



CAT® G3406 TA GAS ENGINE

- Reliable, rugged, durable design
- Field-proven in thousands of applications worldwide
- Low pressure gas



CAT SR4B GENERATOR

- Designed to match performance and output characteristics of Caterpillar engines
- Optimum winding pitch for minimum total harmonic distortion and maximum efficiency
- Segregated AC/DC, low voltage accessory box provides single point access to accessory connections



CAT CONTROL PANELS

- Two levels of controls, designed to meet individual customer needs:
 - EMCP II provides digital monitoring, metering, and protection
 - EMCP II+ provides EMCP II features along with full-featured power metering and protective relaying

STANDBY 240 ekW
CONTINUOUS 190 ekW
60 Hz

CATERPILLAR®

TECHNICAL DATA

Open Generator Set — 1800 rpm/60 Hz/480 Volts			Standby DM5439		Continuous DM5440	
Package Performance						
Power rating		ekW	240		190	
Power rating @ 0.8 PF		kVA	300		238	
Aftercooler temperature	Deg C	Deg F	54	130	54	130
Fuel Consumption						
100% load with fan	N•m³/hr	scf/hr	77	2894	64	2398
75% load with fan	N•m³/hr	scf/hr	61	2291	51	1912
50% load with fan	N•m³/hr	scf/hr	45	1682	37	1418
Cooling System						
Ambient air temperature*	Deg C	Deg F	40	105	40	105
Air flow restriction (system)	kPa	in water	0.12	0.5	0.12	0.5
Air flow (maximum @ rated speed for standard radiator arrangement)	m³/min	cfm	679	23,983	836	29,524
Engine coolant capacity with radiator	L	Gal	57	15	57	15
Jacket water outlet temperature	Deg C	Deg F	99	210	99	210
Exhaust System						
Combustion air inlet flow rate	N•m³/min	scfm	16	572	12	466
Exhaust gas stack temperature	Deg C	Deg F	536	997	525	977
Exhaust gas flow rate	N•m³/min	cfm	16	1749	13	1424
Exhaust flange size (internal diameter)	mm	in	127	5	127	5
Exhaust system backpressure (maximum allowable)	kPa	in water	6.7	27	6.7	27
Heat Rejection						
Low Heat Value (LHV) fuel input	kW	Btu/min	780	44,358	647	36,767
Heat rejection to jacket water (includes oil cooler)	kW	Btu/min	234	13,305	210	11,946
Total heat rejection to exhaust (LHV to 25° C)	kW	Btu/min	217	12,319	174	9892
Heat rejection to exhaust (LHV to 120° C)	kW	Btu/min	167	8180	132	6460
Heat rejection to A/C	kW	Btu/min	25	1395	12	694
Heat rejection to atmosphere from engine	kW	Btu/min	31	1774	26	1471
Heat rejection to atmosphere from generator	kW	Btu/min	20	1162	16	897
Generator						
Motor starting capability @ 30% voltage dip**		kVA	649		649	
Frame			447		447	
Temperature rise		Deg C	130		105	
Emissions***						
NOx		g/bhp-hr	17.8		19.7	
CO		g/bhp-hr	1.1		1	
HC (total)		g/bhp-hr	3.9		4.2	
HC (non-methane)		g/bhp-hr	0.59		0.63	
Exhaust O ₂ (dry)		%	4.0		4.0	

*Ambient capability at 200 m (660 ft) above sea level. For ambient capability at other altitudes, consult your Caterpillar dealer.

**Assumes synchronous driver

***Emissions data measurement is consistent with those described in EPA CFR 40 PART 89 SUBPART D and ISO 8178-1 for measuring HC, CO, CO₂ and NOx. Data shown is based on steady state engine operating conditions of 77° F, 28.43 inches HG and fuel having a LHV of 920 BTU per cubic foot at 30.00 inches HG absolute and 32° F. Not to exceed emission data shown is subject to instrumentation, measurement, facility and engine fuel system adjustments.

RATING DEFINITIONS AND CONDITIONS

Standby — Output available with varying load for the duration of the interruption of the normal source power.

Continuous — Output available without varying load for an unlimited time.

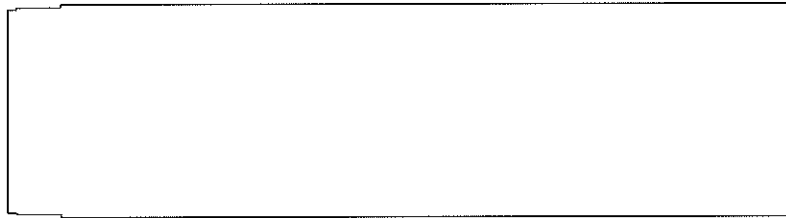
Ratings are based on ISO3046/1 standard reference conditions of 25° C (77° F) and 100 kPa (29.61 in Hg).

Ratings are based on pipeline natural gas having a LHV (low heat value) of 36.2 mJ/N•m³ (920 Btu/cu ft). Variations in altitude, temperature, and gas composition from standard conditions or the use of a three way catalyst may require a reduction in engine horsepower.

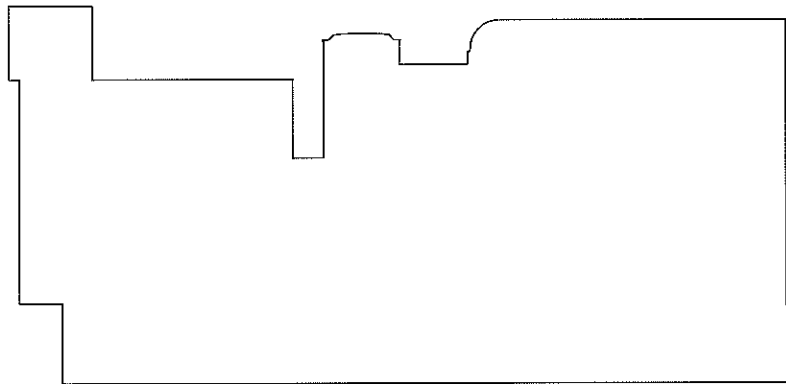
S T A N D B Y 2 4 0 e k W
C O N T I N U O U S 1 9 0 e k W
6 0 H z



STANDBY/CONTINUOUS POWER GENERATOR SET PACKAGE — TOP VIEW



STANDBY/CONTINUOUS POWER GENERATOR SET PACKAGE — SIDE VIEW



Package Dimensions		
Length	4074 mm	160.39 in
Width	1398.4 mm	55.05 in
Height	2138.6 mm	84.20 in
Shipping Weight	4318 kg	9500 lb

Note: Do not use for installation design.
See general dimension drawings
for detail (Drawing #207-4501).

www.CAT-ElectricPower.com

TMI Reference No.: DM5439, DM5440

U.S. sourced

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The International System of Units (SI) is used in this publication.