TECHNICAL DATASHEET — STANDBY GENERATOR SET

CAT DE250EO

STANDBY POWER	FREQUENCY	SPEED	RATING TYPE
250 kVA / 200 kW	**50 Hz**	**1500 rpm**	**STANDBY**

1. PERFORMANCE & FUEL CONSUMPTION SPECIFICATIONS

Applied Load (with Fan)	Fuel Consumption (Liters / hour)	Fuel Consumption (Gallons / hour)
100% Load	55.2 L/h	14.6 gal/h
75% Load	41.8 L/h	11.0 gal/h
50% Load	29.1 L/h	7.7 gal/h
25% Load	17.2 L/h	4.5 gal/h

2. COOLING SYSTEM & AIR INLET

Engine Coolant Capacity:	56.0 Liters (14.8 US gal)
Combustion Air Inlet Flow Rate:	17.3 m^3/min (611 CFM)
Max. Allowable Combustion Air Inlet Temp.:	46.7 °C (116.1 °F)
Fuel Strategy:	LOW FUEL CONSUMPTION

3. EXHAUST SYSTEM

Exhaust Stack Gas Temperature:	534.4 °C (993.9 °F)
Exhaust Gas Flow Rate:	48.7 m^3/min (1720 CFM)
Maximum Allowable Exhaust Backpressure:	10.0 kPa (40.2 in. water)

4. HEAT REJECTION DATA

Heat Rejection to Jacket Water:	106 kW (6029 Btu/min)
Heat Rejection to Exhaust (Total):	176 kW (10010 Btu/min)
Heat Rejection to Aftercooler:	31 kW (1763 Btu/min)
Heat Rejection to Atmosphere from Engine:	43 kW (2445 Btu/min)
Heat Rejection to Atmosphere from Alternator:	21 kW (1194 Btu/min)

5. ALTERNATOR CHARACTERISTICS

Motor Starting Capability:	615 skVA (30% Voltage Dip)
Current:	361 A
Frame Size:	LC5034H

Excitation:	SE (Static Excitation)
Temperature Rise:	130 °C
Power Factor:	0.8 (Inductive)

6. NOMINAL EMISSIONS & REGULATORY COMPLIANCE

NOx:	3374.0 mg/Nm^3 (15.8 g/hp-hr)
CO:	251.0 mg/Nm^3 (1.2 g/hp-hr)
HC:	35.0 mg/Nm^3 (0.2 g/hp-hr)
Particulate Matter (PM):	16.0 mg/Nm^3 (0.1 g/hp-hr)

7. APPLICABLE CODES AND STANDARDS

Compliant with international standards: **AS1300, CSA C22.2 No. 100-04, UL 489, UL 142, UL 2085, NFPA 37, NFPA 70, NFPA 99, NFPA 110, IBC, IEC 60034, ISO 3046, ISO 8528, NEMA MG1-22, NEMA MG1-33, 2006/42/EC, 2006/95/EC, 2004/108/EC**.

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