

Cat® C4.4

Diesel Generator Sets



Image shown may not reflect actual configuration.

Engine Model	Cat® C4.4 Inline 4-stroke Diesel
Bore x Stroke	105.0 mm x 127.0 mm (4.1 in x 5.0 in)
Displacement	4.4 L (268.5 in ³)
Compression Ratio	17.25:1
Aspiration	Turbocharged
Fuel Injection System	Inline
Governor	Mechanical

Model	Standby		Prime		Emissions Strategy
	50 Hz	60 Hz	50 Hz	60 Hz	
DE88EO	88.0 kVA (70.4 kW)	100.0 kVA (80.0 kW)	80.0 kVA (64.0 kW)	90.0 kVA (72.0 kW)	Low BSFC

PACKAGE PERFORMANCE

Performance	Standby		Prime	
Frequency	50 Hz	60 Hz	50 Hz	60 Hz
Genset power rating	88.0 kVA	100.0 kVA	80.0 kVA	90.0 kVA
Genset power rating with fan @ 0.8 power factor	70.4 kW	80.0 kW	64.0 kW	72.0 kW
Emissions	Low BSFC	Low BSFC	Low BSFC	Low BSFC
Performance number	P2516B	P2516A	P2516D	P2516C
Fuel Consumption				
Fuel tank capacity, litres (US gal)	219 (57.9)	219 (57.9)	219 (57.9)	219 (57.9)
100% load with fan, L/hr (gal/hr)	20.1 (5.3)	23.2 (6.1)	18.2 (4.8)	21.0 (5.5)
75% load with fan, L/hr (gal/hr)	14.9 (3.9)	17.4 (4.6)	13.6 (3.6)	16.0 (4.2)
50% load with fan, L/hr (gal/hr)	10.3 (2.7)	12.3 (3.3)	9.5 (2.5)	11.4 (3.0)
Cooling System ¹				
Radiator air flow restriction (system), kPa (in. water)	8.0 (32.1)	8.0 (32.1)	8.0 (32.1)	8.0 (32.1)
Radiator air flow, m ³ /min (cfm)	121.2 (4280)	140.4 (4958)	121.2 (4280)	140.4 (4958)
Total coolant capacity, L (gal)	13.0 (3.4)	13.0 (3.4)	13.0 (3.4)	13.0 (3.4)
Inlet Air				
Combustion air inlet flow rate, m ³ /min (CFM)	5.1 (180)	6.5 (230)	4.8 (170)	6.2 (219)
Max. allowable combustion air inlet temp, °C (°F)	50 (122)	50 (122)	50 (122)	50 (122)
Exhaust System				
Exhaust stack gas temperature, °C (°F)	580 (1076)	560 (1040)	555 (1031)	535 (995)
Exhaust gas flow rate, m ³ /min (CFM)	13.3 (470)	15.9 (560)	12.5 (441)	15.0 (530)
Exhaust system backpressure (maximum allowable), kPa (in. water)	10.0 (3.0)	15.0 (4.4)	10.0 (3.0)	15.0 (4.4)
Heat Rejection				
Heat rejection to jacket water, kW (BTU/min)	51.0 (2900)	57.0 (3242)	46.0 (2616)	53.0 (3014)
Heat rejection to alternator, kW (BTU/min)	7.6 (432)	9.0 (512)	7.6 (432)	9.0 (512)
Heat rejection to atmosphere from engine, kW (BTU/min)	21.6 (1228)	24.0 (1365)	19.6 (1115)	21.7 (1234)

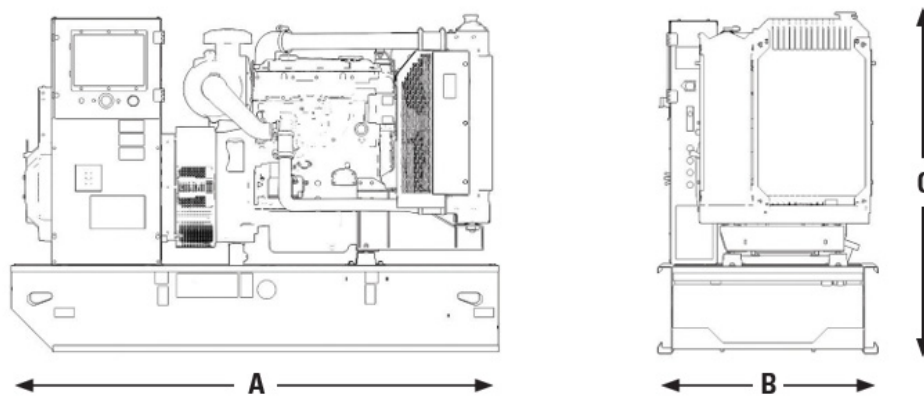
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Electric Power



Alternator ²	50 Hz				60 Hz			
	Voltages	415V	400V	380V	220V	480V	380V	240V
Motor starting capability @ 30% Voltage Dip, skVA	125	116	105	140	139	87	105	117
Current, amps	122	127	134	226	120	137	233	127
Temperature Rise, °C	163/27							
Frame Size	R1973L4							
Excitation	S.E							

WEIGHTS & DIMENSIONS



Length "A" mm (in)	Width "B" mm (in)	Height "C" mm (in)	Dry Weight kg (lb)
1925 (75.8)	1120 (44.1)	1361 (53.6)	1083 (2388)

Note: General configuration not to be used for installation. See general dimension drawings for detail.

APPLICABLE CODES AND STANDARDS:

AS1359, CSA C22.2 No100-04, UL142, UL489, UL869, UL2200, NFPA37, NFPA70, NFPA99, NFPA110, IBC, IEC60034-1, ISO 3046, ISO 8528, NEMA MG1-22, NEMA MG1-33, 2006/95/EC, 2006/42/EC, 2004/108/EC.

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 normal source power. Average power output is 70% of the standby power rating. Typical operation is 200 hours per year, with maximum expected usage of 500 hours per year.

PRIME: Output available with varying load for an unlimited time. Average power output is 70% of the prime power rating. Typical peak demand is 100% of prime rated kW with 10% overload capability for emergency use for a maximum of 1 hour in 12. Overload operation cannot exceed 25 hours per year.

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

DEFINITIONS AND CONDITIONS

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

² UL 2200 Listed packages may have oversized generators with a different temperature rise and motor starting characteristics. Generator temperature rise is based on a 40°C ambient per NEMA MG1-32.

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