

Cat[®] D30

Diesel Generator Sets



Standby : 60 Hz



Image shown may not reflect actual configuration.

Engine Model	Cat [®] C2.2 In-line 4, 4-cycle diesel
Bore x Stroke	84 mm x 100 mm (3.3 in x 3.93 in)
Displacement	2.2 L (134 in ³)
Compression Ratio	23.3:1
Aspiration	Turbocharged air to air charge cooling
Fuel Injection System	Electronically actuated Mechanical Cassette type

Model	Standby 60 Hz ekW	Emission Strategy
D30	30	EPA TIER 4I (EPA 40 CFR Part 1039 Interim Tier 4)

Package Performance

Performance	Standby	
	3-Phase	1-Phase
Frequency	60	60
Genset Power Rating, kVA	37.5	37.5
Genset power rating with fan, kW, 3p@ 0.8 & 1p@1.0 power factor	30	30
Performance Number	P3524C	P3524C
Fuel Consumption		
100% load with fan, L/hr (gal/hr)	9.8 (2.59)	9.8 (2.59)
75% load with fan, L/hr (gal/hr)	7(1.85)	7(1.85)
50% load with fan, L/hr (gal/hr)	5.1(1.35)	5.1(1.35)
Cooling System¹		
Radiator air flow, m ³ /min (cfm)	TBD	
Radiator air flow restriction (system), kPa (in. water)	TBD	
Engine coolant capacity, L (gal)	3.6 (0.95)	
Radiator coolant capacity, L (gal)	TBD	
Total coolant capacity, L (gal)	TBD	
Inlet Air		
Max. Combustion Air Intake Restriction kPa (in. water)	6.4 (25.7)	6.4 (25.7)
Combustion air inlet flow rate, m ³ /min (cfm)	2.49 (87.9)	2.49 (87.9)
Exhaust System		
Exhaust stack gas temperature, °C (°F)	478 (892)	478 (892)
Exhaust gas flow rate, m ³ /min (cfm)	8.4 (296.6)	8.4 (296.6)
Exhaust system backpressure (maximum allowable) kPa (in. water)	10.2 (41.0)	10.2 (41.0)
Heat Rejection		
Heat rejection to jacket water, kW (Btu/min)	37.7 (2144)	37.7 (2144)
Heat rejection from Alternator, kW (Btu/min)	4.2 (238)	4.6 (262)
Heat rejection to atmosphere from engine, kW (Btu/min)	4.6 (262)	4.6 (262)
Heat rejection to exhaust (total) kW (Btu/min)	29.0 (1649)	29.0 (1649)

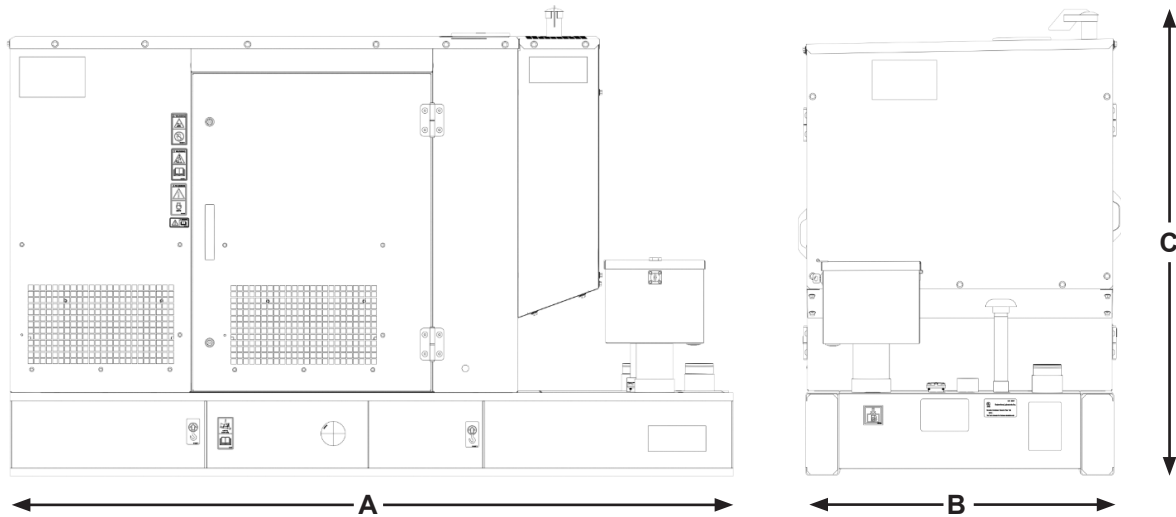
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Electric Power



Alternator ³	60 Hz				
Voltages	480/277	240/120	208/120	600/346	240/120
Motor starting capability @ 30% Voltage Dip, skVA	54	42	42	56	54
Current Amps	45	90	104	36	125
Frame Size	M1717L4				M1736L4
Excitation	S.E				
Temperature Rise, °C	125/40	125/40	125/40	125/40	105/40

Weights and Dimensions



Length "A" mm (in)	Width "B" mm (in)	Height "C" mm (in)	Dry Weight kg (lb)
2250 (88.6)	1050 (41.3)	1470 (57.9)	931 (2052)

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, ISO3046, ISO8528, 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.

RATINGS: Ratings are based on SAE J1349 standard conditions. These ratings also apply at ISO3046 standard conditions.

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