

Cat® D25

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 in³)
Compression Ratio	23.3:1
Aspiration	Turbocharged
Fuel Injection System	Mechanical Cassette Type

Model	Standby	Emission Strategy
D25	25	EPA TIER 4I (EPA 40 CFR Part 1039 Interim Tier 4)

Package Performance

Performance	Standby	
	3-Phase	1-Phase
Frequency, Hz	60	
Genset Power Rating, kVA	31.3	25
Genset power rating with fan, ekW	25	25
Performance Number	P3528A	
Fuel Consumption		
100% load with fan, L/hr (gal/hr)	9.3 (2.45)	
75% load with fan, L/hr (gal/hr)	6.6 (1.74)	
50% load with fan, L/hr (gal/hr)	5.1 (1.35)	
Cooling System¹		
Radiator air flow, m³/min (CFM)	107 (3778)	
Radiator air flow restriction (system), kPa (in. water)	0.12	
Engine coolant capacity, L (gal)	3.6 (0.95)	
Radiator coolant capacity, L (gal)	5.72 (1.51)	
Total coolant capacity, L (gal)	9.32 (2.46)	
Inlet Air		
Max. combustion air intake restriction, kPa (in. water)	6.4 (25.7)	
Combustion air inlet flow rate, m³/min (CFM)	2.49 (87.9)	
Exhaust System		
Exhaust stack gas temperature, °C (°F)	530 (986)	
Exhaust gas flow rate, m³/min (CFM)	7.5 (265)	
Exhaust system backpressure (maximum allowable), kPa (in. water)	10.2 (41.0)	
Heat Rejection		
Heat rejection to jacket water, kW (BTU/min)	33.7 (1916)	
Heat rejection from alternator, kW (BTU/min)	4.2 (238)	
Heat rejection to atmosphere from engine, kW (BTU/min)	7.2 (409)	
Heat rejection to exhaust (total), kW (BTU/min)	25.6 (1456)	

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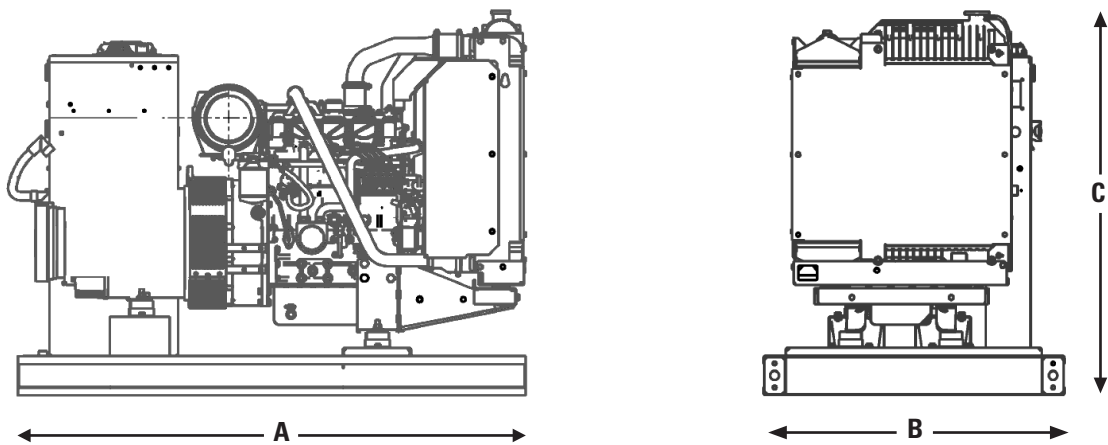
Electric Power



Alternator ³						
Duty Cycle		Standby				
Phase		3-Phase				1-Phase
Voltages, V		208/120	480/277	600/346	240/120	240/120V
Current, Amps		87	38	30	75	104
Excitation		SE	SE	AREP	SE	SE
Frame: M1713L4	Temperature Rise, °C	125	125	125	125	
	Motor Starting Capability @ 30% Voltage Dip, skVA	11	50	58	14	
Frame: M1717L4	Temperature Rise, °C	105	105	105	105	
	Motor Starting Capability @ 30% Voltage Dip, skVA	11	67	76	53	
Frame: M1736L4	Temperature Rise, °C					105
	Motor Starting Capability @ 30% Voltage Dip, skVA					76
Frame: M1715L4	Temperature Rise, °C					125
	Motor Starting Capability @ 30% Voltage Dip, skVA					53



WEIGHTS & DIMENSIONS



Dim "A" mm (in)	Dim "B" mm (in)	Dim "C" mm (in)	Dry Weight kg (lb)
1503 (59)	970 (38)	1169 (46)	498 (1098)

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

APPLICABLE CODES AND STANDARDS:

CSA C22.2 No 100-04, UL142, UL489, UL869, cUL/UL2200, NFPA 37, NFPA 70, NFPA 99,NFPA 110, IBC, IEC60034-1, ISO 3046, ISO 8528, NEMA MG 1-33.

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.

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 Emissions data measurement procedures are consistent with those described in EPA CFR 40 Part 89, Subpart D & E and ISO8178-1 for measuring HC, CO, PM, NOx. Data shown is based on steady state operating conditions of 77° F, 28.42 in HG and number 2 diesel fuel with 35° API and LHV of 18,390 BTU/lb. The nominal emissions data shown is subject to instrumentation, measurement, facility and engine to engine variations. Emissions data is based on 100% load and thus cannot be used to compare to EPA regulations which use values based on a weighted cycle.
- ³ 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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