



Standby : 60 Hz



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	Naturally Aspirated	
Fuel Injection System	Mechanical Cassette Type	

Image shown may not reflect actual configuration

Model	Standby	Emission Strategy
D20	20 ekW	EPA TIER 4I (EPA 40 CFR Part 1039 Interim Tier 4)

Package Performance

Performance	Standby			
	3-Phase	1-Phase		
Frequency, Hz	6	0		
Genset Power Rating, kVA	25	20		
Genset power rating with fan, ekW	20	20		
Performance Number	P35	18A		
Fuel Consumption				
100% load with fan, L/hr (gal/hr)	6.9 (1.8)		
75% load with fan, L/hr (gal/hr)	5.3 (1.4)		
50% load with fan, L/hr (gal/hr)	3.5	0.9)		
Cooling System ¹				
Radiator air flow, m ³ /min (CFM)	44 (1554)			
Radiator air flow restriction (system), kPa (in. water)	0.12			
Engine coolant capacity, L (gal)	3.6 (0.95)			
Radiator coolant capacity, L (gal)	3.4 (0.90)			
Total coolant capacity, L (gal)	7 (1.85)			
Inlet Air				
Max. combustion air intake restriction, kPa (in. water)	6.4 (25.7)			
Combustion air inlet flow rate, m ³ /min (CFM)	1.74 (61.45)			
Exhaust System				
Exhaust stack gas temperature, °C (°F)	498 (928)		
Exhaust gas flow rate, m³/min (CFM)	4.76 (168.0)			
Exhaust system backpressure (maximum allowable), kPa (in. water)	10.2 (41.0)			
Heat Rejection				
Heat rejection to jacket water, kW (BTU/min)	22.2 (1	262)		
Heat rejection from alternator, kW (BTU/min)	4.2 (2	238)		
Heat rejection to atmosphere from engine, kW (BTU/min)	4.6 (262)			
Heat rejection to exhaust (total), kW (BTU/min)	18.3 (1	041)		

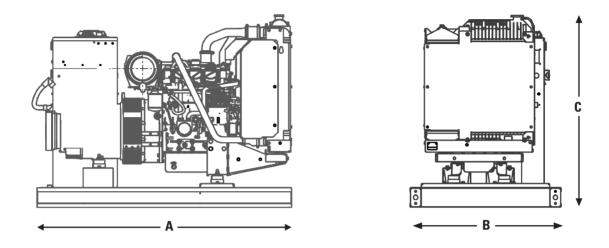
D20 Diesel Generator Sets Electric Power



Alternator ³	Alternator ³					
Duty Cycle		Standby				
Phase		3-Phase			1-Phase	
Voltages, V		208/120	480/277	600/346	240/120	240/120V
Current, Amps		69	30	24	60	83
	Temperature Rise, °C	125	125	125	125	
Frame: M1455L4	Excitation	SE/AREP	SE/AREP	AREP	SE/AREP	
	Motor Starting Capability @ 30% Voltage Dip, skVA	12	55	53	16	
	Temperature Rise, °C	105	105	105	105	105
Frame: M1713L4	Excitation	SE	SE	AREP	SE	SE
	Motor Starting Capability @ 30% Voltage Dip, skVA	11	50	58	14	46
	Temperature Rise, °C	105	105	105	105	
Frame: M1717L4	Excitation	SE	SE	AREP	SE	
	Motor Starting Capability @ 30% Voltage Dip, skVA	53	67	76	53	
	Temperature Rise, °C					105
Frame: M1715L4	Excitation					SE
	Motor Starting Capability @ 30% Voltage Dip, skVA					53
	Temperature Rise, °C					105
Frame: M1736L4	Excitation					SE
	Motor Starting Capability @ 30% Voltage Dip, skVA					76



WEIGHTS & DIMENSIONS



Length "A" Width "B"		Height "C"	Dry Weight	
mm (in) mm (in)		_{mm (in)}	_{kg (lb)}	
1503 (59)	970 (38)	1038 (41)		

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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