

# Cat® D20

## 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 <sup>3</sup> )
Compression Ratio	23.3:1
Aspiration	Naturally aspirated
Fuel Injection System	Mechanical Cassette type

Model	Standby 60 Hz ekW	Emission Strategy
D20	20	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	25	25
Genset power rating with fan, kW, 3p@ 0.8 & 1p@1.0 power factor	20	20
Performance Number	P3518A	P3518A
<b>Fuel Consumption</b>		
100% load with fan, L/hr (gal/hr)	6.5 (1.72)	6.5 (1.72)
75% load with fan, L/hr (gal/hr)	5.1 (1.35)	5.1 (1.35)
50% load with fan, L/hr (gal/hr)	3.8(1.01)	3.8(1.01)
<b>Cooling System<sup>1</sup></b>		
Radiator air flow, m <sup>3</sup> /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)	3.4 (0.90)	
Total coolant capacity, L (gal)	7 (1.85)	
<b>Inlet Air</b>		
Max. Combustion Air Intake Restriction kPa (in. water)	6.4 (25.7)	6.4 (25.7)
Combustion air inlet flow rate, m <sup>3</sup> /min (cfm)	1.74 (61.45)	1.74 (61.45)
<b>Exhaust System</b>		
Exhaust stack gas temperature, °C (°F)	510 (950)	510 (950)
Exhaust gas flow rate, m <sup>3</sup> /min (cfm)	4.76 (168.0)	4.76 (168.0)
Exhaust system backpressure (maximum allowable) kPa (in. water)	10.2 (41.0)	10.2 (41.0)
<b>Heat Rejection</b>		
Heat rejection to jacket water, kW (Btu/min)	22.2 (1262)	22.2 (1262)
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)	18.3 (1041)	18.3 (1041)

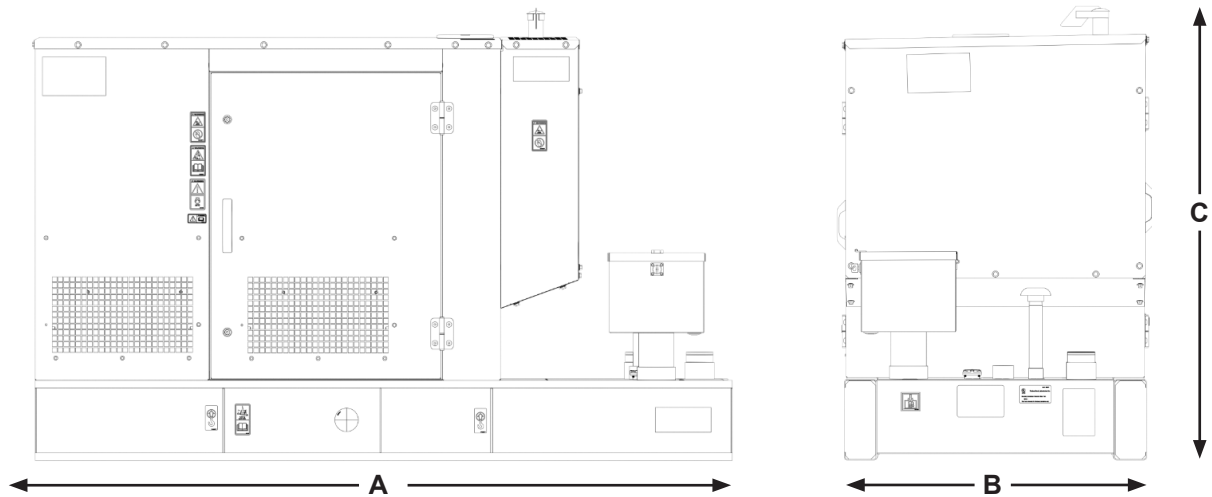
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## Electric Power



Alternator <sup>3</sup>	60 Hz				
	Voltages	480/277	240/120	208/120	600/346
Motor starting capability @ 30% Voltage Dip, skVA	42	34	33	41	46
Current Amps	30	60	69	24	83
Frame Size	M1455L4				M1713L4
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)	800 (1763)

**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.

**LET'S DO THE WORK.™**

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