

CATERPILLAR GENERATOR SET - C7.1 - 200



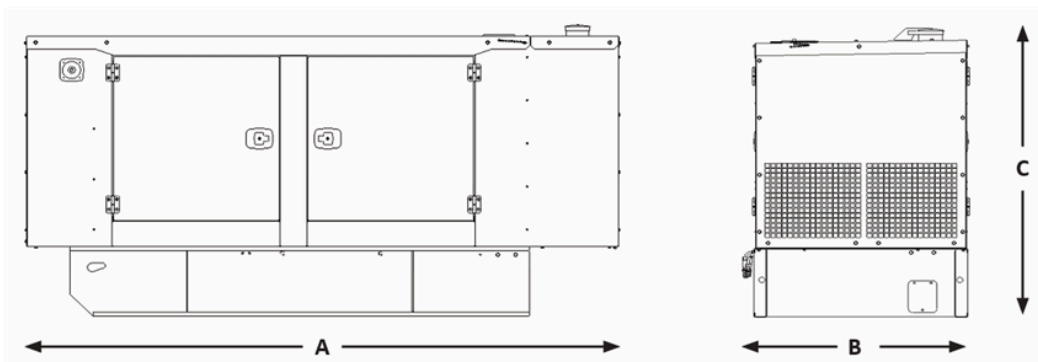
Standby and Prime: 50 Hz



Engine Model	Cat® C7.1 Inline 4-stroke Diesel
Bore x Stroke	105.0 mm x 135.0 mm (4.1 in x 5.3 in)
Displacement	7.0 L (427.8 in³)
Compression Ratio	16.0:1
Aspiration	Turbocharged Air To Air Charge Cooled
Fuel Injection System	Inline
Governor	Mechanical - G3 Class* capable

Model	Standby	Prime (SRR)	Emission Strategy
	50 Hz kVA (ekW)	50 Hz kVA (ekW)	
DE220 GC	220 (176)	198 (158.4)	Low BSFC

WEIGHTS & DIMENSIONS



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

Length "A" mm (in)	Width "B" mm (in)	Height "C" mm (in)	Dry Weight# kg (lb)
3325 (130.9)	1134 (44.6)	1666 (65.6)	1933 (4261.5)

*Weight includes standard generator, Enclosure and Integral Tank base

PACKAGE PERFORMANCE

Performance	Standby	Prime (SRR)
	50 Hz	
Genset power rating	220 kVA	198 kVA
Genset power rating with fan @ 0.8 power factor	176 ekW	158.4 ekW
Emissions	Low BSFC	
Performance number	P6788B	-
Fuel Consumption		
Fuel tank capacity, L (gal)	325 (85.9)	
100% load with fan, L/hr (gal/hr)	49.2 (13.0)	44.3 (11.7)
75% load with fan, L/hr (gal/hr)	37.8 (10.0)	34.1 (9.0)
50% load with fan, L/hr (gal/hr)	25.6 (6.8)	23.1 (6.1)
Cooling System¹		
Radiator air flow, m ³ /min (CFM)	307 (10849)	
Total coolant capacity, L (gal)	27.0 (7.1)	
Inlet Air		
Max. combustion air intake restriction, kPa (in. water)	5.0 (20.1)	
Combustion air inlet flow rate, m ³ /min (CFM)	13.2 (466)	12.0 (423)
Exhaust System		
Exhaust stack gas temperature, °C (°F)	550 (1022)	538 (1000)
Exhaust gas flow rate, m ³ /min (CFM)	36.8 (1300)	33.2 (1172)
Exhaust system backpressure (maximum allowable), kPa (in. water)	6.0 (1.8)	
Heat Rejection		
Heat rejection to jacket water, kW (BTU/min)	81.0 (4606)	78.0 (4436)
Heat rejection to alternator, kW (BTU/min)	15.2 (864)	15.2 (864)
Heat rejection to atmosphere from engine, kW (BTU/min)	13.2 (751)	12.2 (694)
Heat rejection to exhaust (total), kW (BTU/min)	158.0 (8985)	147.0 (8360)

Alternator ²	50 Hz (Standby/Prime)		
Voltages	380	415	400
Motor starting capability @ 30% Voltage Dip, skVA	545	649	601
Current, Amps	329 / 296	303 / 272	318 / 286
Temperature Rise, °C	163/27		
Frame Size	A2637L41		
Excitation	S.E		