

Olympian OD80 Diesel Generator Set

Engine Model	Cat® C4.4 In-line 4, 4-cycle Diesel
Bore x Stroke	105 mm x 127 mm (4.1 in x 5.0 in)
Displacement	4.4 L (269 in³)
Compression Ratio	16.7:1
Aspiration	Turbocharged
Fuel Injection System	Common Rail

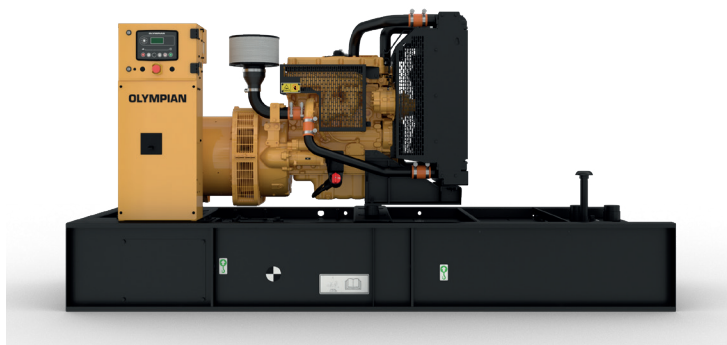


Image shown may not reflect actual configuration

Model	Standby	Emission Strategy
OD80	80 kW	EPA TIER III

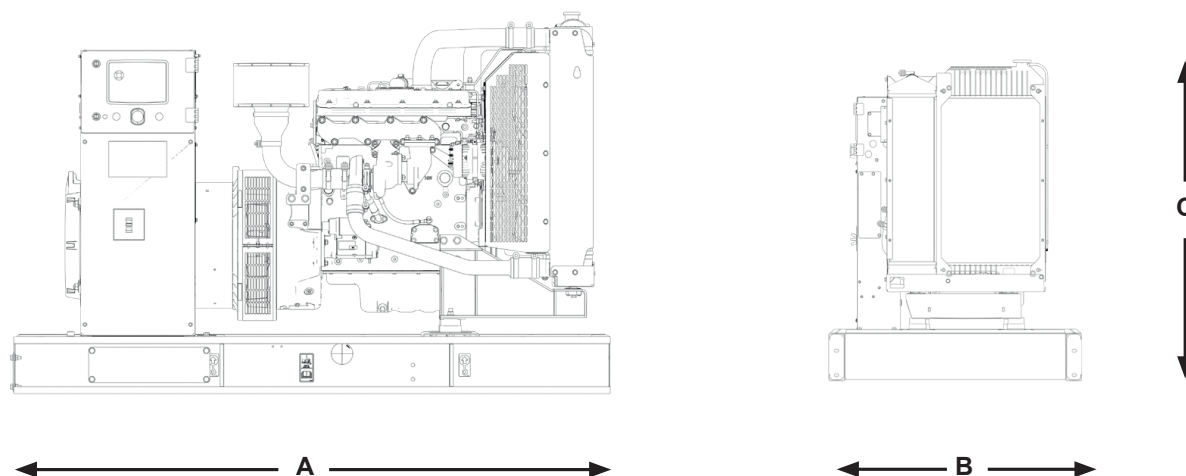
Package Performance

Performance	Standby	
	3-Phase	1-Phase
Frequency, Hz	60	
Genset power rating, kVA	100	80
Genset power rating with fan, 3p@ 0.8 & 1p@1.0 power factor, kW	80	
Performance number	P4510A	
Fuel Consumption		
100% load with fan, L/hr (gal/hr)	22.9 (6.1)	23.3 (6.2)
75% load with fan, L/hr (gal/hr)	18.4 (4.9)	18.6 (4.9)
50% load with fan, L/hr (gal/hr)	13.5 (3.6)	13.6 (3.6)
Cooling System¹		
Radiator air flow restriction (system), kPa (in. water)	0.12 (0.48)	
Engine coolant capacity, L (gal)	7.0 (1.8)	
Radiator coolant capacity, L (gal)	10.0 (2.6)	
Total coolant capacity, L (gal)	17.0 (4.4)	
Inlet Air		
Combustion air inlet flow rate, m³/min (CFM)	7.8 (275)	
Max. allowable combustion air inlet temp, °C (°F)	45 (113)	
Exhaust System		
Exhaust stack gas temperature, °C (°F)	630 (1166)	
Exhaust gas flow rate, m³/min (CFM)	17.6 (620)	17.6 (621)
Exhaust system backpressure (maximum allowable), kPa (in. water)	15.0 (60.2)	
Heat Rejection		
Heat rejection to exhaust (total), kW (BTU/min)	77.7 (4419)	
Heat rejection to atmosphere from engine, kW (BTU/min)	13.5 (768)	
Emissions (Nominal)²		
NOx + HC, g/kW-hr	3.6	
CO, g/kW-hr	0.9	
PM, g/kW-hr	0.12	

Alternator³

Voltages, V	480	208	600	240
Motor starting capability @ 30% Voltage Dip, skVA	143	128	328	182
Current, Amps	120	278	96	333
Frame size	M2233L4	M2236L4	M2236L4	M2235L4
Excitation	SE	SE	AREP	SE
Temperature rise, °C	130	105	105	130

Weights & Dimensions



Length "A" mm (in)	Width "B" mm (in)	Height "C" mm (in)	Dry Weight kg (lb)
2097 (82.6)	1100 (43.3)	1343 (52.9)	950 (2095)

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.

Codes may not be available in all model configurations. Please consult your local Olympian 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 Olympian representative. 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.