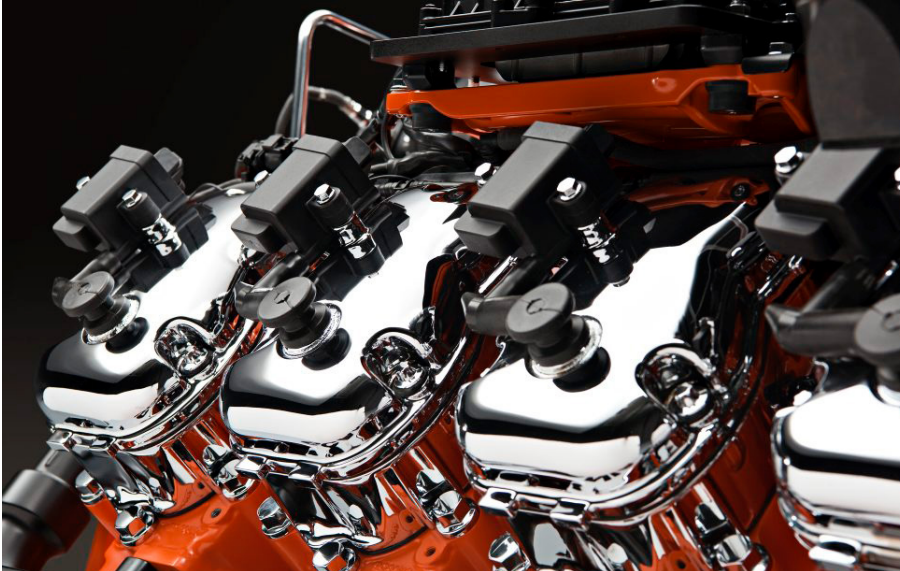


OC16 071A. 333-426 kW (400-525 kVA)

Fuel optimized



The natural gas and biogas lean-burn engine for power generation from Scania are based on a robust design with a strength optimised cylinder block containing wet cylinder liners that can easily be exchanged. Individual cylinder heads with 4 valves per cylinder promotes reparability and fuel economy.

The engine is equipped with low pressure gas system, and air-to air charge air cooler for high efficiency and no need for compressed gas. It produces top class specific power, and can be used for both natural gas and high CO₂ content biogas. The OC16 can suit a variety of installations, but main propose is COP for electric production. The engine can be handled by Scania standard diesel diagnose tool.

Natural gas output range. Prime power.				
Engine type	1,500 rpm (50 Hz)		1,800 rpm (60 Hz)	
	kW	kVA	kW	kVA
PRP	333	400	372	450
PRP	372	450	411	500
PRP	407	500	426	525
COP usage	312	340 (@COP)*	291	315 (@COP)*
Mech eff @COP	312	39 %*	291	37 %*

*COP preliminary level

PRP – Prime power: For continuous operation at varying load. Max mean load factor of 70% of rated power over 24 h of operation.

COP - Continuous power: For continuous operation at a constant load for an unlimited number of hours per year.

Standard equipment

- Engine Management System, OCE1 EMS (Bosch EGC4 HW)
- Zero pressure gas feed regulator
- Gas mixer with exchangeable insert (NG standard)
- Turbocharger
- Oil filter, full flow
- Centrifugal oil cleaner
- Oil cooler, integrated in block
- Oil filler, in block
- Deep front oil sump
- Oil dipstick, in block
- Magnetic drain plug for oil draining
- Starter, 1-pole 7.0 kW (EMS controlled)
- Alternator, 1-pole 100 A (EMS controlled)
- Flywheel, SAE 14
- Silumin flywheel housing, SAE 1 flange
- Front-mounted engine brackets
- Air cleaner, mounted on engine
- Pusher fan, diameter 965 mm, ratio 1:0.9
- Cooling package and radiator 1.5 m² incl. fan cover, expansion tank and fan and belt protection
- Closed crankcase ventilation
- Operator's manual

Optional equipment

- Side-mounted PTO
- Exhaust connections
- Instrument panel
- Engine heater
- Stiff rubber engine suspension
- Studs in flywheel housing
- Low coolant level reaction
- Ramp start delay
- Ramp up rate
- Oil level sensor

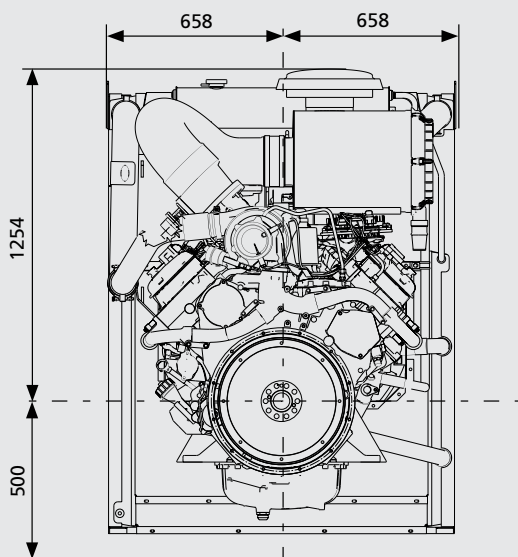
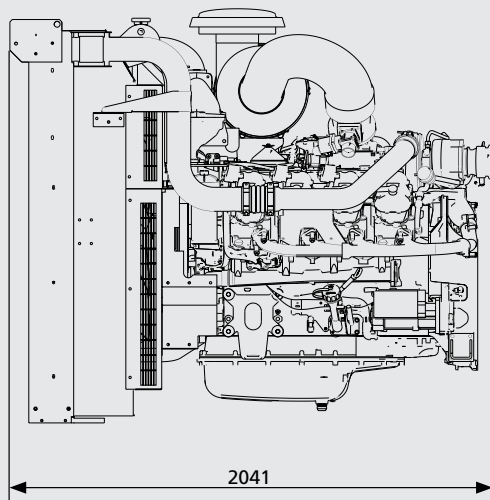


OC16 071A. 333-426 kW (400-525 kVA)

Fuel optimized

Engine description

No of cylinders	90° V8
Working principle	4-stroke, spark ignited
Firing order	1 - 5 - 4 - 2 - 6 - 3 - 7 - 8
Displacement	16.4 litres
Bore x stroke	130 x 154 mm
Compression ratio	12.2:1
Weight	1,340 kg (excl oil and coolant)
Piston speed at 1500 rpm	7.7 m/s
Piston speed at 1800 rpm	9.24 m/s
Camshaft	High position alloy steel
Pistons	Aluminium pistons
Connection rods	I-section press forgings of alloy steel
Crankshaft	Alloy steel with hardened and polished bearing surfaces
Oil capacity	40-48 dm ³ (standard oil sump)
Electrical system	1-pole 24 V
Fuel type	Natural gas, biogas



All dimensions in mm

