



TECHNICAL SPECIFICATION 12-LITRE ENGINE DC12 401 - 459 KVA

The DC12 is a turbo charged 4-stroke diesel engine equipped with Engine Management System (EMS) and Electronically controlled unit injectors (EUI).

No. of cylinders	6 in line
Displacement	11.7 litres
Bore	127 mm
Stroke	154 mm
Weight excl. oil and water	985 kg

Standard equipment

Unit injectors and Scania EMS electronic control unit (Engine Management System). Side mounted turbo charger with high position, centrifugal lube oil cleaner, oil filter, oil cooler, fuel pre-heater, water separator, fuel filter, alternator 1-pole 65A 28V, starting motor 1-pole 6.7 kW 24V, flywheel SAE 14", flywheel housing SAE1 of alumini, front mounted engine brackets, Operator's manual.

Optional equipment

Optional (low type) oil pump, optional oil filling, electrical system 2-pole 24V, alternator 2-pole 65A or 1-pole 100A.

Extra equipment

Pre-assembled radiator 1.0, 1.2 or 1.3 m² with charge-air cooler, fan cover, fan ring, aspiration tank and protection covers, suction and pressure tank 2000 and 2500 mm, soft or fixed engine suspension. Hydraulic pump, air compressor, air compressor. Side mounted power take-off with a maximum continuous torque of 400 Nm (41 kpm). Crankshaft belt pulley with two extra grooves, various exhaust connections, silencer and air cleaner, engine heater, hand pump for oil draining, closed crankcase ventilation, Torsional vibration calculators for industrial applications.

Engine description

Cylinder block Made of alloy cast iron. **Cylinder heads** Six individual cylinder heads. Unit injector technology with engine mounted electronic control unit. **Valves** Four valves per cylinder head. **Crankshaft** Mounted in high position and of alloy steel. **Pistons and cylinder liners** Composite pistons with aluminium bodies and steel crowns. **Cylinder liners** of exchangeable wet type. **Connection rods** 2-section pressurising of alloy steel. **Crankshaft** Made of alloy steel with hardened and polished bearing surfaces. **Oil pump** Made of steel. **Flywheel** Made of cast iron. **Direction of rotation** seen from flywheel end – counter clockwise. **Electrical system** 1-pole 24V.

Engine type		DC12 60A (401 - 459 kVA)			
		50 Hz		60 Hz	
		Prime Power	Stand-by Power	Prime Power	Stand-by Power
Engine output, gross	kW	358	399	384	406
Fan losses*	kW	11	11	11	11
kVA band**	kVA	401	451	434	459
Governor, type	Scania Engine Management System (EMS)				
Spec. fuel consumption:					
1/1 load	g/kWh	192	194	193	194
3/4 load	g/kWh	190	190	192	191
1/2 load	g/kWh	195	193	197	196
Spec. lube oil consumption:		g/kWh		g/kWh	
		< 0.3		< 0.3	
Compression ratio		16:1			
Heat rejection					
to cooling water	kW	136	154	147	156
to exhaust gas	kW	232	263	245	261
to charge air	kW	59	73	72	78
to surrounding air	kW	31	35	32	34
Air consumption	kg/min	27	30	32	33
Exhaust flow	kg/min	28	31	33	34
Exhaust temperature	°C	524	543	489	502

*Fan losses: With recommended fan for +35 °C air-on temperature to cooling system.

**Range, kVA: As per above note. *Fan losses and with generator efficiency common on the market.

Speed variations according to ISO 3045/2V, Class A1, and ISO 8528-1, Class G2.

Output values: 0 to +3%, Fuel values: +3%.

Prime power

Prime power, ISO 8528: For continuous operation and unlimited yearly operation time at varying load and with a max. mean load factor of 70% of rated power, 10% overload capacity 1h/12h.

Rated codes: ISO 3045, ISO 8525.

Stand-by Power

Maximum Stand-by Power: For operation under normal varying load during a power outage.

Not overloadable. Not for applications intended for more than 500 h/year service time. Rating codes: ISO 3045.

Test conditions

Air temperature

+25°C

Barometric pressure

100 kPa (750 mmHg)

Humidity

30%

Diesel fuel acc. to:

ISO 8217 Annex B

Density of fuel

0.840 kg/dm³

Viscosity of fuel

3.0 cSt at 40°C

Energy value

42700 kJ/kg

Scania Dc12 60a Manual

TD Snyder



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