TECHNICAL SPECIFICATION 16-LITRE ENGINE DC16 625 - 626 KVA

Engine type

The DC16 is a turbo charged 4-stroke diesel engine equipped with Engine Management System (EMS) and Electronically controlled unit injectors (EUI).

No. of cylinders	8 in 90 ⁰ V
Displacement	15.6 litres
Bore	127 mm
Stroke	154 mm
Weight excl. oil and water	1290 kg

Standard equipment

Unit injectors and Scania EMS electronic control unit (Engine Management System). Turbo charger, exhaust bend 90°, centrifugal lube oil cleaner, oil failer, oil cooler, fuel pre-filter with water separator, fuel filter, alternator 1-pole 100A 28V, starting motor 1-pole 6.7 kW 24V, flywheel SAE 14", flywheel housing SAE1 of silumin, front mounted engine brackets, Operator's manual.

Optional equipment

Optional oil filling, starter 2-pole 6.7kW 24V.

Extra equipment

Pre-assembled radiator 1.3 m² with charge-air cooler, fan cover, fan ring, expension tank and protection covers, fan Ø965 mm, stiff or fixed engine suspension. Air compressor, Side mounted power take-off with a maximum continuous torque of 400 Nm (41 kpm). front mounted power take-off with a maximum continuous torque of 635 Nm (65 kpm). Crankshaft belt pulley with two extra grooves, various exhaust connections, silencer and air cleaner, engine heater, manual or electrical pump for oil draining, closed crankcase ventilation. Torsional vibration calculations for industrial applications.

Engine description

Cylinder block Made of alloy cast iron. Cylinder heads Individual cylinder heads. Unit injector technology with engine mounted electronic control unit. Steel gasket between block and cylinder heads. **Valves** Four valves per cylinder head. Timing gear train Mounted at the flywheel end of the crankshaft. Camshaft One camshaft for each bodies and steel crow engine block and of I-section pressforgir of alloy steel with surfaces. Oil sump Made of cast iron flywheel end - cou 1-pole 24 V.

cylinder row. Pistons Aluminium	
initial plate type. Connection road	Test conditions
ngs of alloy steel. Crankshaft Made	Air temperature
n hardened and polished bearing Made of cast aluminium. Flywheel	+25°C
. Direction of rotation seen from	Barometric pressure
unter clockwise. Electrical system	100 kPa (750 mmHg)
	Humidity

30% Diesel fuel acc. to Density of fuel 0.840 kg/dm³ Viscosity of fuel 3.0 cSt at 40°C Energy value

Environment:

Fuel optimized, Non-compliant engine.

		Stand-by Power	Stand-by Power
Engine output, gross	kW	545	545
kVA band**	KVA	625	626
Governor, type		Scania Engine Managment System (EMS)	
Spec. fuel consumption:			
1/1 load	g/kWh	201	200
3/4 load	g/kWh	202	206
1/2 load	g/kWh	205	208
Spec. lube oil consumption:	g/kWh	< 0.3	< 0.3
Compression ratio		16:1	
Heat rejection			
to cooling water	kW	187	178
to exhaust gas	kW	406	400
to charge air	kW	120	133
to surrounding air	kW	52	52
Air consumption	kg/min	42	48
Exhaust flow	kg/min	44	49
Exhaust temperature	oC	532	479

DC16 44A (625 - 626 kVA)

60 Hz

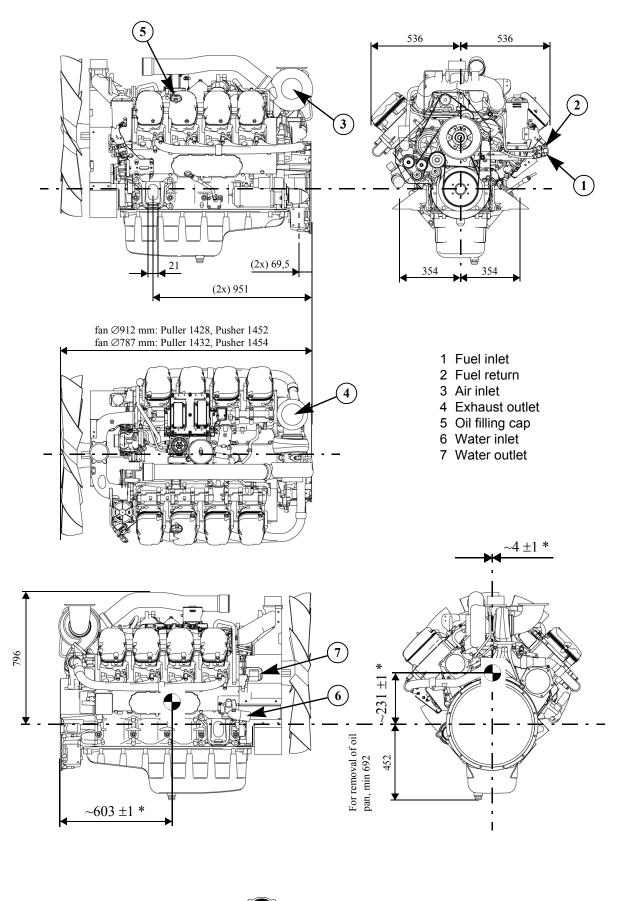
50 Hz

**Range, kVA: As per above note *fan losses and with generator efficiency common on the market. Speed variations according to ISO 3046/IV, Class A1, and ISO 8528-1, Class G2. Output values: 0 to +3%. Fuel values: +/-3%.

Stand-by Power

ESP: For operation under normal varying load during a power outage. Not overloadable. Max mean load factor of 70% of rated power over 24 h of operation. Not for applications intended for more than 200 h/year.

ECE R 24 Annex 6 42700 kJ/kg





This specification may be revised without notice.