

Technical data

DC16 093A, 558-634 kW / 640-720 kVA (engine ref. 02-54)

Emission compliance	Fuel injection system
Fuel optimized	PDE

	1500 rpm (50 Hz)		1800 rpm (60 Hz)		Unit
	PRP	ESP	PRP	ESP	
Gross power	558	614	576	634	kW
	640	706	652	720	kVA
Gross torque	3552	3909	3056	3363	Nm
Fuel consumption					
full load 128.72 L/hr	197	198	202	207	g/kWh
3/4 load 92.62 L/hr	189	189	199	199	g/kWh
1/2 load 63.05 L/hr	193	192	204	202	g/kWh
Heat rejection					
to coolant	189	219	209	242	kW
to exhaust gas	406	443	422	488	kW
to charge air	109	125	131	148	kW
to surrounding air	52	58	55	63	kW
Air consumption	41	44	47	50	kg/min
Air temperature					
upstream of charge air cooler	202	218	207	229	°C
downstream of charge air cooler	45	48	47	53	°C
Pressure in intake manifold	2.4	2.6	2.3	2.5	bar
Pressure drop in charge air cooler	0.1	0.1	0.2	0.2	bar
Exhaust flow	43	46	49	52	kg/min
Exhaust temperature	536	546	493	536	°C
Step load performance					
(According to class G2. See section 2 for more information.)	58	52	76	69	%
	322	322	438	438	kW

6A

Cooling performance

 Cooling package 1.5 m², fan Ø965, ratio 1:0.9

	1500 rpm (50 Hz)						1800 rpm (60 Hz)					
	PRP			ESP			PRP			ESP		
Air-on temp* (°C)	56	61	64	53	57	60	60	64	69	56	60	64
Airflow (kg/s)	7	10	17	7	10	17	16	19	20	16	19	20
Restriction (Pa)	350	250	100	350	250	100	260	150	100	260	150	100
Fan power losses (kW)	13						21					