

Technical data

DC13 072A, 365-449 kW / 413-508 kVA (engine ref. 02-12)

Emission compliance	Fuel injection system
Fuel optimized, non-compliant	Unit injectors, PDE

	1500 rpm (50 Hz)		1800 rpm (60 Hz)		Unit
	PRP	ESP	PRP	ESP	
Gross power	365	403	410	449	kW
	413	456	456	508	kVA
Gross torque	2324	2566	2175	2382	Nm
Fuel consumption					
full load 78 L/hour	183	186	191	195	g/kWh
3/4 load 58 L/hour	184	183	187	187	g/kWh
1/2 load 39 L/hour	186	185	192	190	g/kWh
Heat rejection					
to coolant	112	119	127	143	kW
to exhaust gas	235	271	287	324	kW
to charge air	61	75	84	98	kW
to surrounding air	28	31	33	37	kW
Air consumption	28	30	34	35	kg/min
Air temperature					
upstream of charge air cooler	173	192	197	214	°C
downstream of charge air cooler	44	48	49	50	°C
Pressure in intake manifold	1.9	2.2	2.0	2.1	bar
Pressure drop in charge air cooler	0.10	0.15	0.15	0.15	bar
Exhaust flow	29	32	35	36	kg/min
Exhaust temperature	488	509	488	524	°C
Step load performance					
(According to class G2. See section 2 for more information.)	69	63	79	72	%
	257	257	328	328	kW

Cooling performance

 Cooling package 1.3 m², fan Ø914, ratio 1:0.9

	1500 rpm (50 Hz)								1800 rpm (60 Hz)							
	PRP				ESP				PRP				ESP			
Air-on temp* (°C)	45	61	68	72	57	65	69	59	64	69	71	55	60	66	68	
Airflow (kg/s)	1.5	6	8.5	11.5	6	8.5	11.5	5.5	8.5	11	14	5.5	8.5	11	14	
Restriction (Pa)	500	300	200	150	300	200	150	500	400	300	220	500	400	300	220	
Fan power losses (kW)	10								17							

*Based on engine coolant temperature 105°C.