



Technical data

DC16 49A, 483-584 kW / 553-673 kVA (engine ref. 10-28C)

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	483	531	531	584	kW
	553	609	600	673	kVA
Spec. fuel consumption					
full load	196	199	201	204	g/kWh
3/4 load	191	191	193	193	g/kWh
1/2 load	195	194	197	196	g/kWh
Heat rejection					
to coolant	157	175	171	192	kW
to exhaust gas	359	400	408	473	kW
to charge air	92	110	114	123	kW
to surrounding air	45	50	51	57	kW
Air consumption	37	40	44	46	kg/min
Air temperature					
after charge air cooler	50	50	50	50	°C
Fall of pressure, charge air cooler	0.10	0.10	0.15	0.15	Bar
Exhaust flow	39	42	46	48	kg/min
Exhaust temperature	531	542	508	559	°C
Step load performance					
(According to class G2. See section 2 for more information.)	>66	>60	>60	>55	%

6_B

Cooling performance - estimated values

Cooling package 1.5 m², fan Ø965, ratio 1500 rpm; 1:1.0, ratio 1800 rpm; 1.08

1500 rpm (50 Hz)						1800 rpm (60 Hz)					
PRP			ESP			PRP			ESP		
Air-on temp* (°C)	Airflow (kg/s)	Rest-ri-ction (Pa)	Air-on temp* (°C)	Airflow (kg/s)	Rest-ri-ction (Pa)	Air-on temp* (°C)	Airflow (kg/s)	Rest-ri-ction (Pa)	Air-on temp* (°C)	Airflow (kg/s)	Rest-ri-ction (Pa)
70	21	100	68	21	100	71	28	100	69	28	100
68	16	200	66	16	200	69	19	250	67	19	250
64	10.5	350	61	10.5	350	64	13	400	62	13	400

* Based on engine coolant temperature 105°C

Fan power losses (kW)

18	17
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