

Engine			
Туре		BF6M1013EC	BF6M1013EC
51			
Speed	[min ⁻¹]	1800	1800
Net frequency	[Hz]	60	60
Power standard		LTP	LTP
Power level		G1	G2
Exhaust emission standard		COM II	Fuel optimized
General			
Aspiration		Turbo, CAC	Turbo, CAC
No of cylinders		6	6
Configuration		in-line	in-line
Injection system			tion pumps
Displacement	[1]	7.15	7.15
Bore	[mm]	108	108
Stroke	[mm]	130	130
Compression ratio	r1	19	19
Mean effective pressure	[bar]	15.2	18.4
Piston speed	[m/s]	7.8	7.8
Rotation (looking at flywheel)	[1100]	CCW	CCW
No of teeth on flywheel ring gear		129	129
Governor performance		120	120
Speed droop (static) mech. gov.	[%]	4 - 5	4 - 5
Speed droop (static) electr. gov.(EMR/DDE)	[%]	0 - 3	0 - 3
Governing standards	[70]	0 0	0 0
to ISO 8528 Parts 1 and 5		G2	G2
Moment of inertia		02	02
Engine without flywheel	[kg m²]	0.23	0.23
Flywheel (standard genset spec.)	[kg m ²]	2.6	2.6
Max. step load acceptance, 1st step	[%]	2.0	2.0
Sound power at full load,incl. cooling system ⁵	[70] [dB(A)]	117.2	117.3
		103.5	103.5
Sound press.(1m average,full load), incl.cool.syst. Weight	[dB(A)]	103.5	103.5
	[ka]	709	709
Engine dry, w/o cooling system	[kg]	708 770	708 770
Engine with cooling system	[kg]	770	770
Lubrication system		TD0400	
Oil specification		TR0199-99-3002/6	
Oil consumption (as % of fuel consumption)		0.3	0.3
Oil capacity (sump)	[l]	20	20
Min. oil pressure (warning)	[bar]	2.9	2.9
Min. oil pressure (shut down)	[bar]	2.2	2.2
Max. permissible oil temperature(oil pan)	[°C]	130	130
	F1 1 4 77	100	107
Gross output(LTP or StandBy Power) ¹	[kW]	163	197
Fan reduction	[kW]	8.7	8.7
Net flywheel	[kW]	154.3	188.3
Electrical output ²	[kVA]	175	220
Gross output(PRP or Prime Power) ^{1a} Gross output(Continous Power)) ^{1b}	[kW] [kW]	155 148	181 165



Type BF6M1013EC BF6M1013EC Fuel consumption 50% load ³ [1/h] 11.5 13.7 50% load ³ [1/h] 20 23.7 75% load ³ [1/h] 20.3 34.5 100% load ³ [1/h] 29.3 34.5 100% load ³ [1/h] 29.3 34.5 25% load [g/kWh] 253 257 50% load [g/kWh] 214 216 25% load [g/kWh] 214 215 Max suction head of fuel feed pump [m] - - Cooling System - - - General engine cooling data - - - Max, perm. flow resistance (cool.syst, and piping) [bar] 0.35 0.35 Max, temperature of coolant (shutdown) [°C] 106 108 Max, perm. flow resistance (cool.syst, and piping) [bar] 0.3 0.3 Delivery of coolant pump [bar] 0.3 0.3 Temperature at which thermostat stark to open	Engine			
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Heat BalanceHeat dissipation (engine radiator)6[kW]73.587.6Heat dissipation (CAC)[kW]33.741.8Heat dissipation (convection)[kW]16.019.3Inlet / Exhaust DataMax. intake depression (Switch setting)[mbar]2525Combustion air volume[m³/h]801.2852Max. exhaust back pressure[mbar]3030Max. exhaust gas temperature[°C]480560Exhaust gas flow (at above temp)[m³/h]20972440	Cooling air flow	[m ³ /h]	11500	11500
Heat dissipation (engine radiator) $[kW]$ 73.587.6Heat dissipation (CAC) $[kW]$ 33.741.8Heat dissipation (convection) $[kW]$ 16.019.3Inlet / Exhaust Data \mathbf{X} \mathbf{X} \mathbf{X} \mathbf{X} Max. intake depression (Switch setting) $[mbar]$ 2525Combustion air volume $[m^3/h]$ 801.2852Max. exhaust back pressure $[mbar]$ 3030Max. exhaust gas temperature $[^\circ C]$ 480560Exhaust gas flow (at above temp) $[m^3/h]$ 20972440	Air pressure loss, external	[mbar]	2.0	2.0
Heat dissipation (CAC) $[kW]$ 33.741.8Heat dissipation (convection) $[kW]$ 16.019.3Inlet / Exhaust Data $[kW]$ 16.019.3Max. intake depression (Switch setting) $[mbar]$ 2525Combustion air volume $[m^3/h]$ 801.2852Max. exhaust back pressure $[mbar]$ 3030Max. exhaust gas temperature $[^{\circ}C]$ 480560Exhaust gas flow (at above temp) $[m^3/h]$ 20972440	Heat Balance			
Heat dissipation (convection)[kW]16.019.3Inlet / Exhaust DataImage: Second seco	Heat dissipation (engine radiator) ⁶	[kW]	73.5	87.6
Inlet / Exhaust DataMax. intake depression (Switch setting)[mbar]2525Combustion air volume[m³/h]801.2852Max. exhaust back pressure[mbar]3030Max. exhaust gas temperature[°C]480560Exhaust gas flow (at above temp)[m³/h]20972440	Heat dissipation (CAC)	[kW]	33.7	41.8
Max. intake depression (Switch setting)[mbar]2525Combustion air volume[m³/h]801.2852Max. exhaust back pressure[mbar]3030Max. exhaust gas temperature[°C]480560Exhaust gas flow (at above temp)[m³/h]20972440	Heat dissipation (convection)	[kW]	16.0	19.3
Combustion air volume $[m^3/h]$ 801.2852Max. exhaust back pressure $[mbar]$ 3030Max. exhaust gas temperature $[^\circC]$ 480560Exhaust gas flow (at above temp) $[m^3/h]$ 20972440	Inlet / Exhaust Data			
Max. exhaust back pressure[mbar]3030Max. exhaust gas temperature[°C]480560Exhaust gas flow (at above temp)[m³/h]20972440	Max. intake depression (Switch setting)	[mbar]	25	25
Max. exhaust gas temperature[°C]480560Exhaust gas flow (at above temp)[m³/h]20972440	Combustion air volume	[m ³ /h]	801.2	852
Exhaust gas flow (at above temp) [m ³ /h] 2097 2440	Max. exhaust back pressure	[mbar]	30	30
	Max. exhaust gas temperature	[°C]	480	560
	Exhaust gas flow (at above temp)	[m ³ /h]	2097	2440
	Exhaust flange / pipe diameter		-	-



Engine Datasheet BF6M1013EC 1800-min⁻¹

Engine Type		BF6M1013EC	BF6M1013EC
Electrical System			
Voltage	[V]	24	24
Starter	[kW]	6	6
Alternator output	[A]	35	35
Batteries(minimum capacity, cold start limit -5°C)	[Ah]	2*100	2*100

Powers (kW) in accordance with DIN ISO 14396.

1 Limited time power 100%, which is capable for up to 500 h/year of which maximum of 300 h/year is continuous running, not exceedable,

but required power for governing purpose only has to be considered. Necessary supply of engine power usually 10% for governing purpose only.

1a Prime power 100% , average power output \leq 80%, no time limitation, plus 5% additional power for governing purpose only.

1b Continuous power 100% , no time limitation, plus 10% power for governing purpose only.

2 Ratings in accordance with ISO 8525 LTP. Alternator efficiency please see datasheet. 1500 min-1 = kVA, 1800 min-1 = kWe

3 At calorific value 42700 kJ/kg + 5 %, density 0.835 kg/dm3, temperature 280 K.

4 Technical data and max. permissible torque for fan drive see data sheet.

5 Sound power values measured in accordance with ISO 6798.

6 The heat quantities are valid for the dimensioning of the cooling system.

They are given for the engine with the highest fuel consumption.

For further application guidance see DEUTZ Installation Manual.

All data are provided for informational purposes only and are subject to amendment.