

1011. The Genset Engine.

23-60 kVA at 1500/1800/3000 min⁻¹ | rpm



The engine with integrated oil cooling system.

These are the characteristics of the 1011 Gen:

- 2, 3 and 4-cylinder naturally aspirated in-line engines.
- 4-cylinder model also with turbocharging.
- Displacement: 0.68 l/cylinder.
- Integrated oil cooling (engine is delivered complete with cooler).
- Acoustically optimized crankcase.
- All service points on the same engine side.
- Electronic engine governor (option).
- Compact design and low weight.
- Worldwide service network with over 1,000 locations.

Your benefits:

- ▶ Low noise emission, cost savings as no noise attenuation measures are required.
- ▶ Long service intervals: 1,000-hour oil change intervals and low fuel consumption bring savings in operating costs.
- ▶ Low installation costs.
- ▶ Excellent load takeover characteristics ensure prompt power supply.
- ▶ Combined oil cooling and lubrication prevents corrosion and cavitation. High reliability and durability together with reduced maintenance requirement and wear parts.



Dimensions and weights/integrated cooler

F2L 1011 F

Length:	mm	inch	645	25.2
Width:	mm	inch	588	22.9
Height:	mm	inch	707	27.6
Weight:	kg	lb	210	463

F3L 1011 F

Length:	mm	inch	767	29.9
Width:	mm	inch	588	22.9
Height:	mm	inch	701	27.3
Weight:	kg	lb	250	551

F4L 1011 F

Length:	mm	inch	878	34.2
Width:	mm	inch	588	22.9
Height:	mm	inch	719	28.0
Weight:	kg	lb	288	635

BF4L 1011 F

Length:	mm	inch	789	30.8
Width:	mm	inch	531	20.7
Height:	mm	inch	727	28.4
Weight:	kg	lb	290	639

► Rating table: 1011. The Genset Engine. 50/60 Hz

Engine type		F2L 1011 F		F3L 1011 F		
Speed	min ⁻¹ rpm	3000		1500	1800	3000
Frequency	Hz	50		50	60	50
Engine/genset ratings¹⁾						
Continuous power, ICN (COP) ²⁾	kW hp	20,0 27.2		16,0 21.8	20,5 27.9	30,0 40.8
Prime power, ICN (PRP) ³⁾	kW hp	21,0 28.6		17,0 23.1	22,0 29.9	31,0 42.2
Limited-time running power, IFN (LTP) ⁴⁾	kW hp	22,0 29.9		18,0 24.5	23,0 31.3	33,0 44.9
Typical generator power output						
Typical generator power output (COP) ⁵⁾	kVA/kWe	23,0		18,0	23,0/18.0	34,0
Typical generator power output (PRP) ⁵⁾	kVA/kWe	24,0		19,0	25,0/20.0	35,0
Typical generator power output (LTP) ⁵⁾	kVA/kWe	25,0		20,0	26,0/21.0	37,0
Spec. fuel consumption (LTP)⁶⁾						
100 % load	g/kWh lb/hp-hr	248 0.402		225 0.365	225 0.365	238 0.386
75 % load	g/kWh lb/hp-hr	270 0.437		236 0.382	227 0.368	255 0.413
50 % load	g/kWh lb/hp-hr	327 0.530		243 0.394	242 0.392	285 0.462
25 % load	g/kWh lb/hp-hr	527 0.854		349 0.565	318 0.515	450 0.729

Engine type		F4L 1011 F			BF4L 1011 F		
Speed	min ⁻¹ rpm	1500	1800	3000	1500	1800	3000
Frequency	Hz	50	60	50	50	60	50
Engine/genset ratings¹⁾							
Continuous power, ICN (COP) ²⁾	kW hp	31,0 42.2	29,0 39.4	42,0 57.1	28,5 38.8	36,0 49.0	46,0 62.6
Prime power, ICN (PRP) ³⁾	kW hp	24,0 32.6	31,0 42.2	44,0 59.8	30,5 41.5	38,0 51.7	50,0 68.0
Limited-time running power, IFN (LTP) ⁴⁾	kW hp	29,0 39.4	32,5 44.2	47,0 63.9	32,0 43.5	40,0 54.4	53,0 72.1
Typical generator power output							
Typical generator power output (COP) ⁵⁾	kVA/kWe	26,0	32,0/24.0	47,0	32,0	41,0/33.0	52,0
Typical generator power output (PRP) ⁵⁾	kVA/kWe	27,0	35,0/27.0	49,0	34,0	43,0/35.0	56,0
Typical generator power output (LTP) ⁵⁾	kVA/kWe	32,0	37,0/29.0	52,0	36,0	45,0/36.0	60,0
Spec. fuel consumption (LTP)⁶⁾							
100 % load	g/kWh lb/hp-hr	220 0.356	220 0.356	237 0.384	217 0.352	211 0.342	227 0.368
75 % load	g/kWh lb/hp-hr	223 0.361	220 0.356	260 0.421	218 0.353	213 0.345	244 0.395
50 % load	g/kWh lb/hp-hr	244 0.395	233 0.377	283 0.458	233 0.377	232 0.376	300 0.486
25 % load	g/kWh lb/hp-hr	360 0.583	340 0.551	400 0.648	280 0.454	290 0.470	400 0.648

1) Possibly power reduction depending on altitude and temperature. Please contact DEUTZ.

2) Continuous power 100 %, available at flywheel, no time limitation, plus 10 % extra power for governing purposes.

3) Prime power 100 %, mean power output 60 %, no time limitation, plus 5 % extra power for governing purposes.

4) Limited-time running power 100 %, which must be available during 500 running hrs/year, thereof max. 300 running hrs/year continuously, no overload permissible; the required extra power for governing purposes must be taken into account, however.

5) Taking into account typical generator efficiency of 83 % to 88 % and power factor cos (φ) = 0.8.

6) For fuel specification see operation manual.

The values given in this data sheet are for information purposes only and not binding. The information given in the offer is decisive.

Standard specification

Standard engine: Flywheel housing SAE 4 (5 for n = 3000 min⁻¹ | rpm); flywheel with 6.5" connection.

Cooling system: Integrated cooling system, V-belt guard.

Filter: Dry air cleaner with mechanical restriction indicator, fuel filter.

Engine electrics: Alternator 14 V, 60 A; starter motor with 12 V, 2.2 kW.

Governor: Mechanical (Bosch).



We move your world.

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