

1011. The Genset Engine.

19-52 kVA at 1500/1800/3000 min⁻¹ | rpm



The engine with external oil cooling system.

These are the characteristics of the 1011 Gen:

3 and 4 cylinder naturally aspirated in-line engines

4 cylinder model also with turbocharging.

Displacement: 0.73 l/cylinder

Fully oil-cooled (with conventional cooling system).

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.



Dimensins and weights/without cooler

F 3M 1011 F

Length: mm | inch 905 | 35.3

Width: mm | inch 598 | 23.3

Height: mm | inch 702 | 27.4

Weight: kg | lb 243 | 536

F 4M 1011 F

Length: mm | inch 1031 | 40.2

Width: mm | inch 598 | 23.3

Height: mm | inch 734 | 28.6

Weight: kg | lb 282 | 622

BF 4M 1011 F

Length: mm | inch 1034 | 40.3

Width: mm | inch 598 | 23.3

Height: mm | inch 777 | 30.3

Weight: kg | lb 303 | 668

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

Engine type		F3M 1011 F		F4M 1011 F		BF4M 1011 F	
Speed	min ⁻¹ rpm	1500	3000	1500	3000	1500	
Frequency	Hz	50	50	50	50	50	
Engine/genset ratings¹⁾							
Continuous power, ICN (COP) ²⁾	kW hp	17,2 23.4	32,0 43.5	23,8 32.4	43,8 59.6	33,7 45.8	
Prime power, ICN (PRP) ³⁾	kW hp	18,0 24.5	33,5 45.6	24,9 33.9	45,9 62.4	35,3 48.0	
Limited-time running power, IFN (LTP) ⁴⁾	kW hp	19,0 25.8	35,3 48.0	26,2 35.6	48,1 65.4	37,1 50.5	
Typical generator power output							
Typical generator power output (COP) ⁵⁾	kVA	19,0	35,0	26,0	47,0	37,0	
Typical generator power output (PRP) ⁵⁾	kVA	20,0	36,0	28,0	49,0	38,0	
Typical generator power output (LTP) ⁵⁾	kVA	21,0	38,0	29,0	52,0	41,0	
Spec. fuel consumption PRP (LTP)⁶⁾							
100 % load	g/kWh lb/hp-hr	220 0.356	235 0.381	215 0.348	235 0.381	211 0.342	
75 % load	g/kWh lb/hp-hr	220 0.356	245 0.397	216 0.350	243 0.394	213 0.345	
50 % load	g/kWh lb/hp-hr	229 0.371	274 0.444	235 0.381	370 0.599	218 0.353	
25 % load	g/kWh lb/hp-hr	320 0.518	412 0.667	340 0.551	410 0.664	270 0.437	

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

Engine type		F3M 1011 F		F4M 1011 F		BF4M 1011 F	
Speed	min ⁻¹ rpm	1800		1800		1800	
Frequency	Hz	60		60		60	
Engine/genset ratings¹⁾							
Continuous power, ICN (COP) ²⁾	kW hp	22,0 29.9		29,9 40.7		41,4 56.3	
Prime power, ICN (PRP) ³⁾	kW hp	23,1 31.4		31,3 42.6		43,3 58.9	
Limited-time running power, IFN (LTP) ⁴⁾	kW hp	24,3 33.0		32,9 44.7		45,6 62.0	
Typical generator power output							
Typical generator power output (COP) ⁵⁾	kVA/kWe	24,0/19.0		33,0/26.0		41,0/36.0	
Typical generator power output (PRP) ⁵⁾	kVA/kWe	25,0/20.0		34,0/28.0		43,0/38.0	
Typical generator power output (LTP) ⁵⁾	kVA/kWe	27,0/21.0		36,0/29.0		45,0/40.0	
Spez. Kraftstoffverbrauch bei PRP (LTP)⁶⁾							
100 % load	g/kWh lb/hp-hr	220 0.356		215 0.348		206 0.334	
75 % load	g/kWh lb/hp-hr	220 0.356		215 0.348		208 0.337	
50 % load	g/kWh lb/hp-hr	240 0.390		230 0.373		215 0.348	
25 % load	g/kWh lb/hp-hr	330 0.535		320 0.518		270 0.437	

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 3; flywheel with 11.5" connection.

Cooling system: Cooling unit, V-belt guard, pusher-type fan.

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

Engine electrics: Alternator 14 V, 55 A; starter motor with 12 V, 3.1 kW.

Governor: Mechanical (Bosch).



We move your world.

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