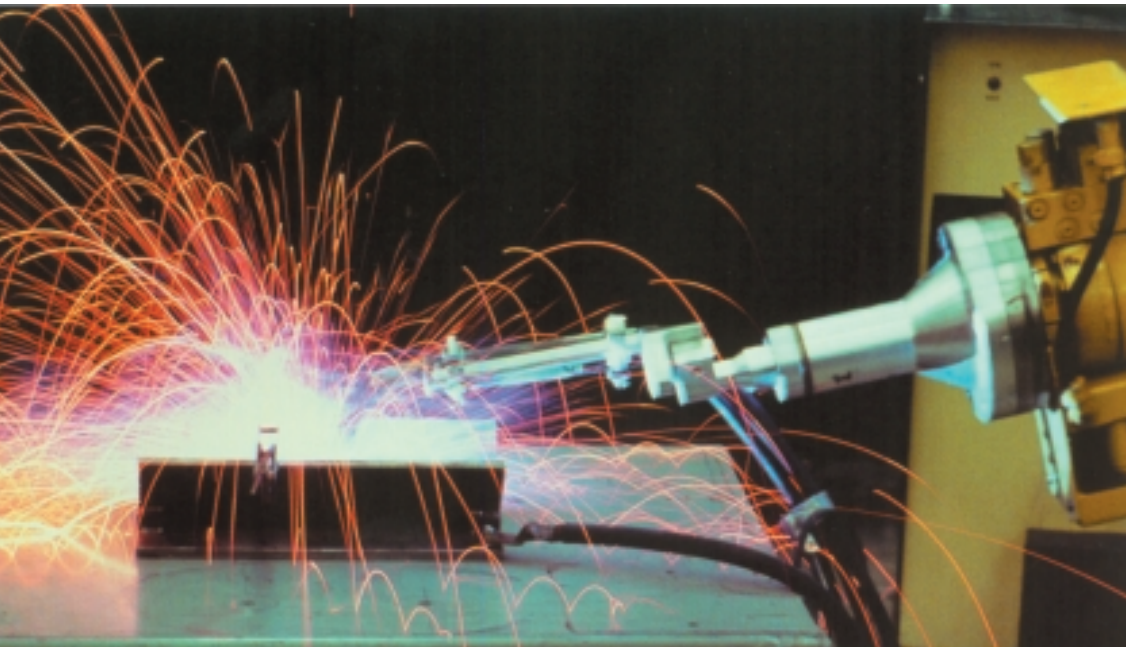


2011. The Genset Engine.

12 - 60 kVA at 1500/1800 min⁻¹ | rpm



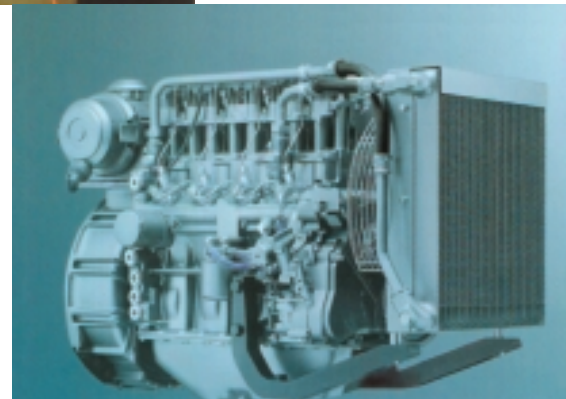
The engine with external oil cooling system.

These are the characteristics of the 2011 Gen:

- 2, 3 and 4 cylinder naturally aspirated in-line engines.
- 4 cylinder model also with turbocharging.
- Displacement: 0.78 l/cylinder.
- Fully oil-cooled (engine 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 oil change intervals: 1,000-hour / turbocharged engines 500 hour and low fuel consumption bring savings in operating cost.
- ▶ Low installation cost.
- ▶ 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

F2M 2011

Length:	mm inch	845 33.0
Width:	mm inch	643 25.1
Height:	mm inch	762 29.7
Weight:	kg lb	206 454

F3M 2011

Length:	mm inch	956 37.3
Width:	mm inch	616 24.0
Height:	mm inch	761 29.7
Weight:	kg lb	247 545

F4M 2011

Length:	mm inch	1067 41.6
Width:	mm inch	616 24.0
Height:	mm inch	778 30.3
Weight:	kg lb	285 628

BF4M 2011

Length:	mm inch	1080 42.1
Width:	mm inch	649 25.3
Height:	mm inch	787 30.7
Weight:	kg lb	286 631

BF4M 2011 C

Length:	mm inch	1183 46.1
Width:	mm inch	717 28.0
Height:	mm inch	807 31.4
Weight:	kg lb	350 772

► Rating table: 2011. The Genset Engine. 50 Hz

Engine type		F2M2011	F3M2011	F4M2011	BF4M2011	BF4M2011C
Speed	min ⁻¹ rpm	1500	1500	1500	1500	1500
Frequency	Hz	50	50	50	50	50
Engine/genset ratings ¹⁾						
Continuous power, ICN (COP) ²⁾	kW hp	11.8 16.0	18.5 25.2	26.6 36.2	35.6 48.4	53.3 72.5
Prime power, ICN (PRP) ³⁾	kW hp	12.4 16.0	19.4 25.4	28.0 38.1	37.4 50.9	56.1 76.3
Limited-time running power, IFN (LTP) ⁴⁾	kW hp	13.0 17.7	20.4 27.7	29.4 40.0	39.2 53.3	59.0 80.2
Typische Generatorleistung						
Typical generator power output (COP) ⁵⁾	kVA	11.8	19.0	28.5	38.0	58.0
Typical generator power output (PRP) ⁵⁾	kVA	12.5	20.0	30.0	40.0	60.0
Typical generator power output (LTP) ⁵⁾	kVA	13.1	20.9	31.5	42.0	65.0
Spec. fuel consumption PRP (LTP)⁶⁾						
100% load	g/kWh lb/hp-hr	235 0.381	225 0.365	220 0.356	215 0.348	211 0.342
75% load	g/kWh lb/hp-hr	245 0.397	230 0.373	215 0.348	210 0.340	207 0.335
50% load	g/kWh lb/hp-hr	270 0.437	245 0.397	230 0.373	225 0.365	207 0.335
25% load	g/kWh lb/hp-hr	400 0.648	400 0.648	320 0.518	270 0.437	231 0.374

► Rating table: 2011. The Genset Engine. 60 Hz

Engine type		F2M2011	F3M2011	F4M2011	BF4M2011	BF4M2011C
Speed	min ⁻¹ rpm	1800	1800	1800	1800	1800
Frequency	Hz	60	60	60	60	60
Engine/genset ratings ¹⁾						
Continuous power, ICN (COP) ²⁾	kW hp	14.3 19.4	22.1 30.1	31.8 43.2	42.8 58.2	-
Prime power, ICN (PRP) ³⁾	kW hp	15.0 20.4	23.3 31.7	33.5 45.6	45.0 61.2	63.6 86.5
Limited-time running power, IFN (LTP) ⁴⁾	kW hp	15.8 21.5	24.5 33.3	35.2 47.9	47.3 64.3	66.8 90.8
Typische Generatorleistung						
Typical generator power output (COP) ⁵⁾	kWe	11.3	18.0	27.0	36.0	-
Typical generator power output (PRP) ⁵⁾	kWe	11.9	19.0	28.5	38.0	56.0
Typical generator power output (LTP) ⁵⁾	kWe	12.5	20.0	30.0	40.0	59.0
Spec. fuel consumption PRP (LTP)⁶⁾						
100% load	g/kWh lb/hp-hr	230 0.373	225 0.365	230 0.373	210 0.340	215 0.348
75% load	g/kWh lb/hp-hr	240 0.389	225 0.365	220 0.356	210 0.340	214 0.347
50% load	g/kWh lb/hp-hr	270 0.437	250 0.405	230 0.373	220 0.356	219 0.355
25% load	g/kWh lb/hp-hr	400 0.648	400 0.648	320 0.518	260 0.421	259 0.419

1) Possible power reduction depending on altitude and temperature, without deduction of fan power requirement. 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, of these 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 - 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. Exhaust-optimized ratings on request.

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).

The engine company.

