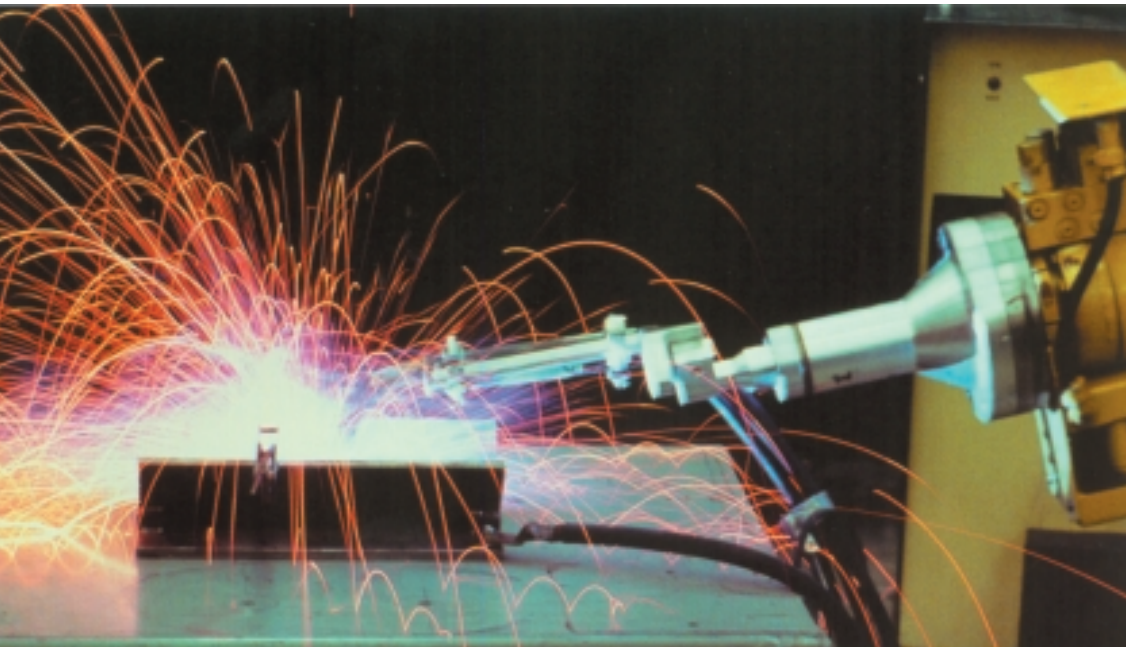


# 2011. The Genset Engine.

12 - 60 kVA at 1500/1800 min<sup>-1</sup> | rpm



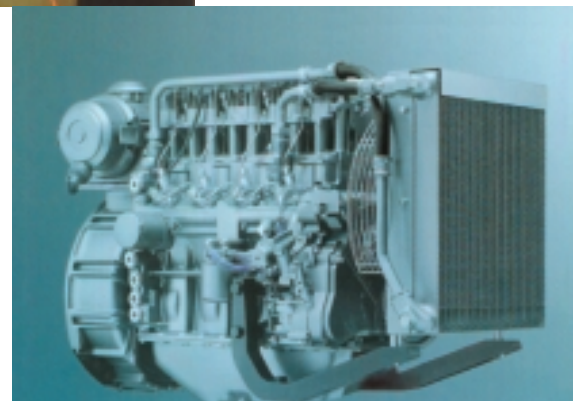
## The engine with external oil cooling system.

### 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 <sup>-1</sup>   rpm	1500	1500	1500	1500	1500
Frequency	Hz	50	50	50	50	50
<b>Engine/genset ratings <sup>1)</sup></b>						
Continuous power, ICN (COP) <sup>2)</sup>	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) <sup>3)</sup>	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) <sup>4)</sup>	kW   hp	13.0   17.7	20.4   27.7	29.4   40.0	39.2   53.3	59.0   80.2
<b>Typische Generatorleistung</b>						
Typical generator power output (COP) <sup>5)</sup>	kVA	11.8	19.0	28.5	38.0	58.0
Typical generator power output (PRP) <sup>5)</sup>	kVA	12.5	20.0	30.0	40.0	60.0
Typical generator power output (LTP) <sup>5)</sup>	kVA	13.1	20.9	31.5	42.0	65.0
<b>Spec. fuel consumption PRP (LTP)<sup>6)</sup></b>						
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 <sup>-1</sup>   rpm	1800	1800	1800	1800	1800
Frequency	Hz	60	60	60	60	60
<b>Engine/genset ratings <sup>1)</sup></b>						
Continuous power, ICN (COP) <sup>2)</sup>	kW   hp	14.3   19.4	22.1   30.1	31.8   43.2	42.8   58.2	-
Prime power, ICN (PRP) <sup>3)</sup>	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) <sup>4)</sup>	kW   hp	15.8   21.5	24.5   33.3	35.2   47.9	47.3   64.3	66.8   90.8
<b>Typische Generatorleistung</b>						
Typical generator power output (COP) <sup>5)</sup>	kWe	11.3	18.0	27.0	36.0	-
Typical generator power output (PRP) <sup>5)</sup>	kWe	11.9	19.0	28.5	38.0	56.0
Typical generator power output (LTP) <sup>5)</sup>	kWe	12.5	20.0	30.0	40.0	59.0
<b>Spec. fuel consumption PRP (LTP)<sup>6)</sup></b>						
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.

