

# 2012. The Genset Engine.

54 - 78 kVA at 1500 min<sup>-1</sup> / 50 - 71 kWe at 1800 min<sup>-1</sup>



## These are the characteristics of the 2012 Gen:

Watercooled 4-cylinder in-line engine.

Turbocharging and turbocharging with charge air cooling.

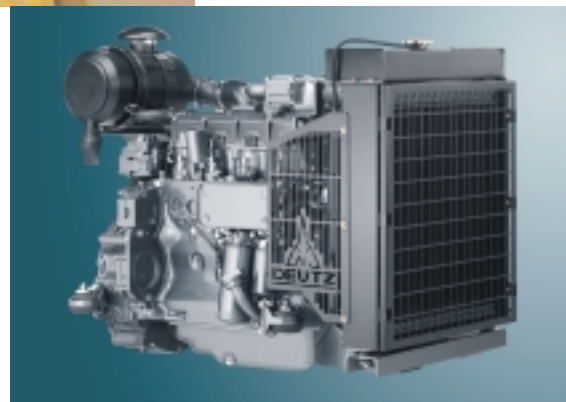
Displacement 1 l/cylinder.

Modern high-pressure fuel injection system with single injection pumps.

Electronic governor (option).

All servicing points on one side.

Compact design and low weight.



## Your benefit:

- ▶ Low noise radiation. This eliminates the need for costly noise attenuation measures.
- ▶ Exemplarily low fuel and oil consumption, long service intervals save operating costs.
- ▶ Easy and cost-effective installation with minimum weight and small space requirement.
- ▶ Outstanding load acceptance ensures immediate power supply.
- ▶ Incomparably low exhaust emission, meets all industrial exhaust regulations.
- ▶ Global service network with over 1,000 locations.

## ► Technical data

Engine type		BF4M2012		BF4M2012C	
		50 Hz		60 Hz	
Speed	min <sup>-1</sup>	1500	1500	1800	1800
Frequency	Hz	50	50	60	60
<b>Engine/genset ratings<sup>1)</sup></b>					
Continuous power, ICN (COP) <sup>2)</sup>	kW/HP	51.0/68.0	64.0/86.0	60.0/80.0	75.0/101.0
Prime power, ICN (PRP) <sup>3)</sup>	kW/HP	54.0/72.0	71.0/95.0	63.0/84.0	79.0/106.0
Limited-time running power, IFN (LTP) <sup>4)</sup>	kW/HP	60.0/80.0	74.9/100.0	70.0/94.0	88.0/118.0
<b>Typical generator power output</b>					
Typical generator power output (COP) <sup>5)</sup>	kVA kWe	54.0	66.0	63.0 50.0	74.0 59.0
Typical generator power output (PRP) <sup>5)</sup>	kVA kWe	57.0	74.0	66.0 53.0	79.0 63.0
Typical generator power output (LTP) <sup>5)</sup>	kVA kWe	65.0	78.0	74.0 59.0	89.0 71.0
<b>Specific fuel consumption (PRP)<sup>6)</sup></b>					
100% load	g/kWh lb/hp hr	220 0.65	200 0.59	227 0.67	217 0.64
50% load	g/kWh lb/hp hr	229 0.68	205 0.61	239 217	217 0.66
25% load	g/kWh lb/hp hr	272 0.80	240 0.71	281 0.83	262 0.78

1) Power reduction caused by altitude and temperature possible. For more details please contact DEUTZ.

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

3) Prime power 100 %, permissible average power output equal to or below 60 %, no time limitation plus 5% extra power for governing purposes.

4) Limited-time running power 100 %, which can be delivered during 500 running h/year, thereof max. 300 running h/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 88.8 - 91.2% and power factor cos (φ) = 0,8.

6) 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.

## ► Dimensions

Dimensions and weights		BF4M2012	BF4M2012C		BF4M2012	BF4M2012C
Total length incl. air filter	mm	1288.5	1378.8	inch	50.7	54.3
Length w/o air filter	mm	1092.5	1172.8	inch	43.0	46.6
Total width	mm	681.9	733.0	inch	26.8	28.9
Total height	mm	971.0	971.0	inch	38.2	38.2
Height from mid crankshaft	mm	736.0	736.0	inch	29.0	29.0
Weight w/o cooling system	kg	405.0	405.0	lbs	893.0	893.0
Weight incl. cooling system	kg	457.0	473.0	lbs	1008.0	1043.0

### Standard specification

Standard engine: SAE 2 housing with flywheel 10"/11,5".

Cooling system: HT cooling system, incl. charge air cooler, depending on engine type, pusher-type fan.

Exhaust system: Without exhaust silencer, with counterflange for exhaust system on turbocharger.

Filter: Lubeoil filter, air filter depending on engine type loose or mounted.

Engine electrics: 12 Volt system.

Governor: Mechanical (standard) or electronic governor (optional).

Miscellaneous: Painting dark grey.

The engine company.

