For Your Convenience: This Deutz File Is Shared By Diesel Parts Direct



YOUR ONE STOP SUPERSTORE FOR DIESEL ENGINE PARTS

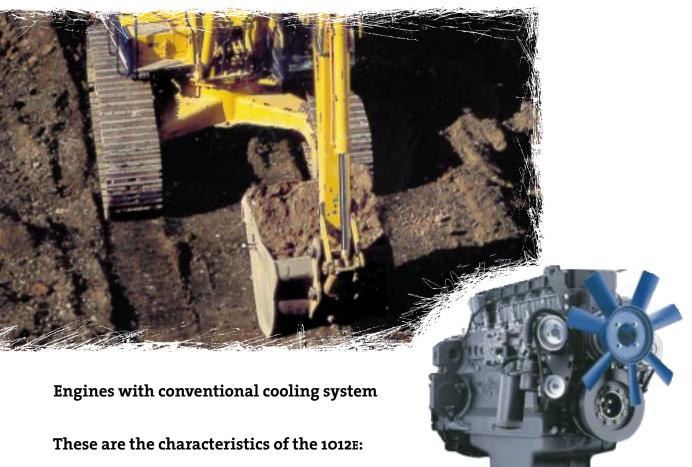




1012 E. The engine for construction equipment.



42 - 125 kW at 1500 - 2500 min⁻¹



Modern water-cooled 4- and 6-cylinder in-line engines.

Turbocharging and turbocharging with charge air cooling.

High-pressure fuel injection up to 1600 bar.

Electronic engine governor with diagnostic facilities as option.

Three mounting options for gear-driven hydraulic pumps.

Compact design and high power-to-volume-ratio.

Long maintenance intervals, user-friendly.

Customer service available worldwide.

These are the benefits for you:

- Flexible and powerful response to changing operating duties.
- Low costs for noise insulation measures. High comfort in the driver's cab because of low noise level. Low noise emission, low environmental impact.
- High operating economy thanks to low fuel consumption, long oil change intervals and low maintenance requirement.
- ► High productivity through dynamic power development.
- Low exhaust emission for a clean environment. Meets exhaust regulation EU-RL 97/68.
- High reliability and long service life, even under extreme working conditions.

Engine description

Type of cooling: Liquid cooling, thermostatically controlled,

charge-air-cooled engines with air-to-air charge air cooler

Crankcase: High grey cast iron crankcase, for monobloc construction,

integrated liners

Crankcase breather: Closed-circuit crankcase breather

Cylinder head: Grey cast iron block-type cylinder head

Valve arrangement/

timing: ______One inlet and one exhaust overhead valve per cylinder, actuated from gear-driven camshaft

via tappets, push rods and rocker arms

Piston: Three-ring piston, two compression rings and one oil scraper ring

Piston cooling: Oil cooled with spray nozzles

Connecting rod: Forged steel rod

Crankshaft bearings: Tri-metal plain bearings

Crankshaft: With integral counterweights: 4-cylinder version with integral mass balancing shafts

Camshaft: Forged steel shaft

Lubrication system: Forced-feed circulation lubrication with gear pump

Lube oil cooler: Oil cooler integrated in coolant circuit

Lube oil filter: Paper-type microfilter as replaceable-cartridge full flow filter

Injection pump/

governor: Single injection pumps for each cylinder integrated in crankcase

Mechanical centrifugal governor (standard); electronic engine governor (EMR) optional

Fuel lift pump: Integrated in V-belt tensioner

Injection nozzle: Five-hole nozzle

Fuel filter: Replaceable cartridge

Alternator: Three-phase alternator 12 V or 24 V

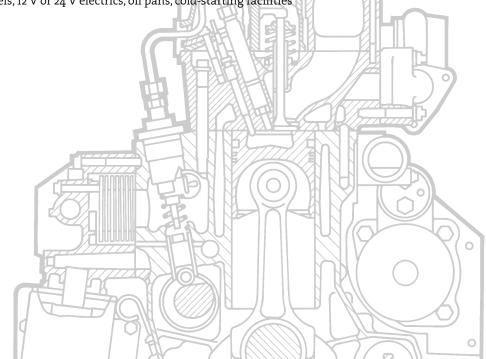
Starter motor: 12 V or 24 V

Heating system: Optional connection for cab heating to engine cooling circuit

Options: Intake manifold, exhaust manifold, turbocharger positions,

air compressor, hydraulic pump installation positions, SAE 2/3/4/ flywheel housings,

flywheels, 12 V or 24 V electrics, oil pans, cold-starting facilities



► Technical data

	BF4M1012E	BF4M1012EC	BF6M1012E	BF6M1012EC
	4	4	6	6
mm	94/115	94/115	94/115	94/115
1	3.19	3.19	4.79	4.79
	17.5	17.5	17.5	17.5
min ⁻¹	2500	2500	2500	2500
m/s	9.58	9.58	9.58	9.58
quipment engine	es ¹⁾			
2S ²⁾ kW	66	84	100	125
min ⁻¹	2500	2500	2500	2500
bar	9.93	12.64	10.02	12,53
⊕S⁴)				
kW	63	80	95	120
min ⁻¹	2500	2500	2500	2500
bar	9.47	12.03	9.52	12.03
kW	59	76	90	113
min ⁻¹	2500	2500	2500	2500
bar	8.87	11.43	9.02	11.33
Nm	300	378	450	569
min ⁻¹	1500	1500	1500	1500
min ⁻¹	650	650	650	650
g/kWh	208	200	208	200
kg	330	332	435	437
	min ⁻¹ m/s quipment engine es ²⁾ kW min ⁻¹ bar kW min ⁻¹ bar kW min ⁻¹ bar Nm min ⁻¹ min ⁻¹	mm 94/115 I 3.19 17.5 min ⁻¹ 2500 m/s 9.58 quipment engines ⁻¹ es ⁻² kW 66 min ⁻¹ 2500 bar 9.93 es ⁻⁰ kW 63 min ⁻¹ 2500 bar 9.47 kW 59 min ⁻¹ 2500 bar 9.47 kW 59 min ⁻¹ 2500 bar 8.87 Nm 300 min ⁻¹ 1500 min ⁻¹ 650 g/kWh 208	Mm	## ## ## ## ## ## ## ## ## ## ## ## ##

▶ Model designation

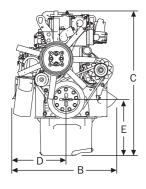
BF 6 M 1012 EC

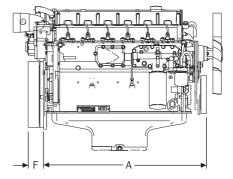
	E = with external cooling system C = with charge air cooler
	Engine family designation
	M = liquid cooled
N	umber of cylinders
B = turl F = high	oocharging nspeed four-stroke engine

- 1) Power ratings without deduction of fan power requirement.
- 2) Power to ISO 1585, EG-RL80/1269/EWG and EG-RL88/195/EWG.
- 3) Speed 2600 min⁻¹ also available with the same power.
- 4) Fuel stop power to ISO 3046/1 (IFN), DIN 6271.
- 5) Specific fuel consumption based on diesel fuel with a specific gravity of 0.835 kg/dm^3 at 15°C .
- 6) Without starter motor/alternator, radiator and liquids, however with flywheel and flywheel housing.

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

Dimensions

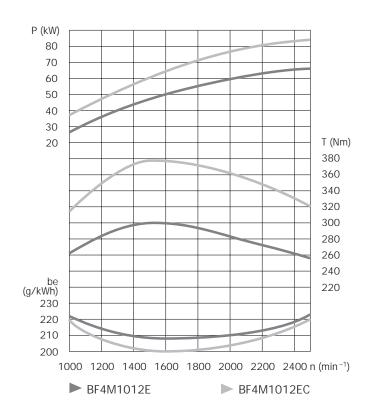


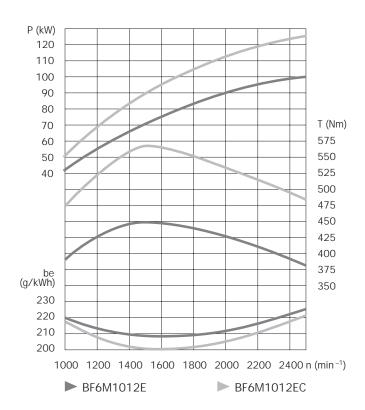


Engine		Α	В	С	D	Е	F
BF4M1012E	mm	653	540	742	290	235	122
BF4M1012EC*	mm	653	540	742	290	235	122
BF6M1012E	mm	881	540	827	290	320	122
BF6M1012EC*	mm	881	540	827	290	320	122

^{*} Dimensions without charge air cooler • side mounted turbocharger optional

Standard engines







DEUTZ AG

Deutz-Mülheimer Str. 147-149 D-51057 Köln Telephone: ++ 49 (0) 2 21-8 22 - 25 10 Fax: ++ 49 (0) 2 21-8 22 - 25 29 Internet: http://www.deutz.de