DEUTZ DRIVE

THE NEW POWER PACK SERIES

The engine company.

DEUTZ®

FACTS

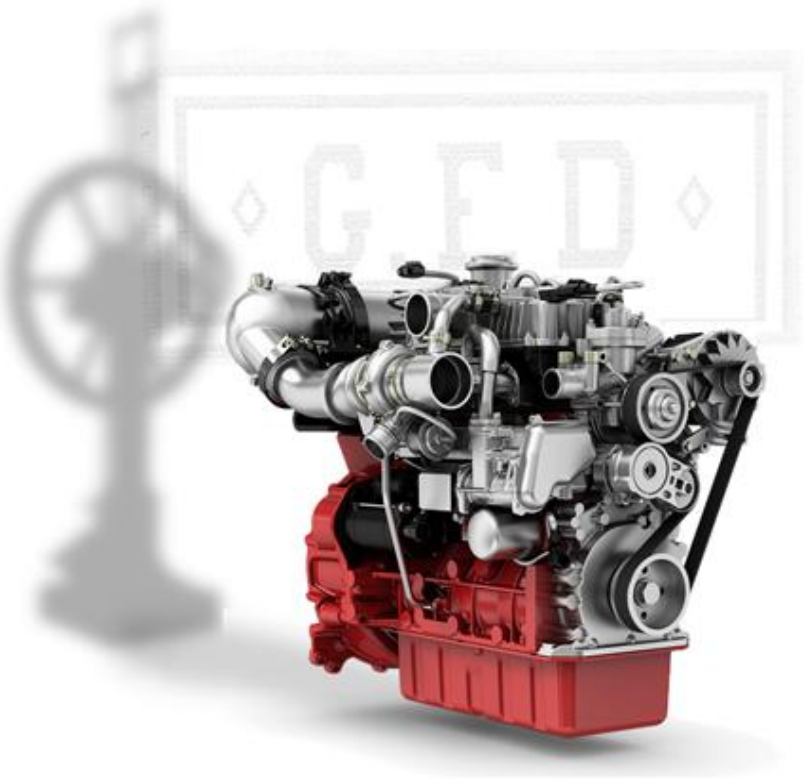
DEUTZ AUSTRALIA – OUR ORIGINS

It all started with one great idea more than **150** years ago. Nicolaus August Otto discovered the principle of the **4-**stroke engine, thereby creating the basis for global motorisation and our mobile society. It was the same year when he started with Eugen Langen “N.A. Otto & Cie”, the world’s first engine factory - and the progenitor of today's DEUTZ AG.

Today, more than **800** sales and service partners provide our customers with support, **24** hours a day, **7** days a week, in **130** countries all over the world. **4,000** excellently trained and motivated DEUTZ employees provide you with support throughout the world at all times. Our state-of-the-art logistics centres boast around **80,000** parts and a sophisticated logistics system means that our spare parts can be promptly supplied to our customers and dealers around the world.

Since **1952**, supported by a large dealer network, **DEUTZ Australia Pty Ltd.** has been offering these technologies, service, and knowledge throughout Australia, New Zealand and the Pacific Islands.

As the leading engine company in Australia, we are proud to present to you our latest innovation - DEUTZ DRIVE, which has been customised and exclusively built for the Australian and New Zealand markets.



FACTS

INNOVATIVE SOLUTIONS FOR ALL APPLICATIONS

As an independent manufacturer, DEUTZ offers a wide range of the most successful diesel and gas engine systems in the world. The engine range from 12kW to 520kW covers all areas of mobile and stationary applications.

F4L912 mounted to an industrial pump

“ENGINE TECHNOLOGY FOR TOMORROW”

The engine company.

DEUTZ®

CONCEPT

WHAT IS DEUTZ DRIVE?

DEUTZ DRIVE is a new engine package that has been designed locally and specifically for the Australian and New Zealand market and conditions. This series includes the proven 912 and 914 air cooled engines, the 2011 air-oil cooled engines, and the 1013 water cooled engines to cover a wide range of applications.

DEUTZ can supply a **Base Engine** for general requirement and replacement, or a complete DEUTZ DRIVE turnkey **Power Pack** ready to install and run. The DEUTZ DRIVE is the perfect solution for reliable and fuel efficient motive power.

“THE DRIVER OF YOUR SUCCESS”

THE BENEFITS

- **Complete** engine solutions for the majority of applications
- **Compact** designed engines with standardised components and exactly specified connection points
- **Reduced installation work and cost** allows a faster assembly time
- **Frameless** Power Pack solution offering customers maximum flexibility
- **Flexible, modular, and simple** system with a wide range of additional features
- **Long-life** engines with up to 3 years warranty
- **Very economical** thanks to low fuel consumption, long oil change intervals and low maintenance requirement

CONCEPT

BASE ENGINE

Factory supplied scope:

- **Mounted Engine Cooling System:** Integrated or externally
- **Senders and Sensors:** Easy connection of the preferred engine control panel
- **Mounted Manifold Muffler:** Mounted to all natural aspirated engines
- **Mounted Air Cleaner:** All natural aspirated and water cooled engines
- **Engine Mounting:** All engines come with rigid or flexible mountings
- **Belt and Fan Guarding:** All air-oil cooled engines are supplied with belt and fan guarding

DEUTZ DRIVE POWER PACK

Locally designed and manufactured value added options:

- **Mounted Muffler:** Muffler, exhaust pipe, and mounting parts for all turbo charged engines
- **Air Cleaner Mounting Kit:** Bracket, pipework, and connection parts for all 914 and 2011 turbo versions
- **Belt and Fan Guarding:** Designed and manufactured according to AS4024 to cover the cooling fan and belts for all 912, 914, and 1013 engines

DEUTZ DRIVE CUSTOMIZED OPTIONS

Solutions to suit any application:

- **Engine Mounting:** Various flexible engine mounts
- **Hydraulic Pump Drive**
- **Engine Speed Control:** mechanical and electrical control
- **Stub Shafts**
- **Engine Control Panels:** Basic protection, industrial, irrigation, auto control panels with various functions
- **First Fill Options:** Recommended DEUTZ engine oil and coolant

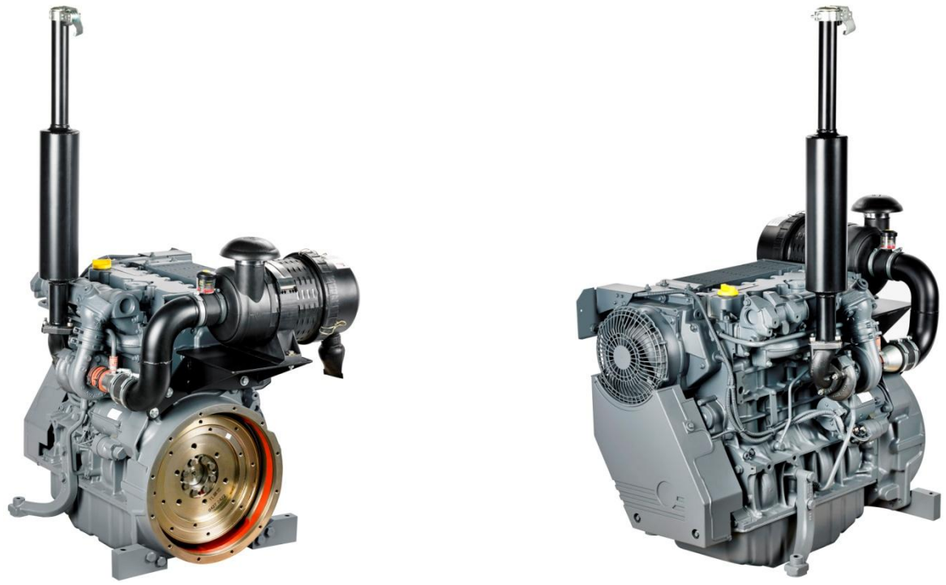
DEUTZ DRIVE

AIR-OIL COOLED ENGINES

2011 SERIES

21.8 – 58.1 kW at 2800 rpm

- **Air-Oil cooled** engines with integrated cooling system
- **2 to 4 cylinder naturally aspirated and 4 cylinder turbo charged** engines in inline arrangement
- **High reliability combined with durability** - No corrosion or cavitation due to oil cooling and lubrication



BF4L2011 DEUTZ DRIVE Power Pack

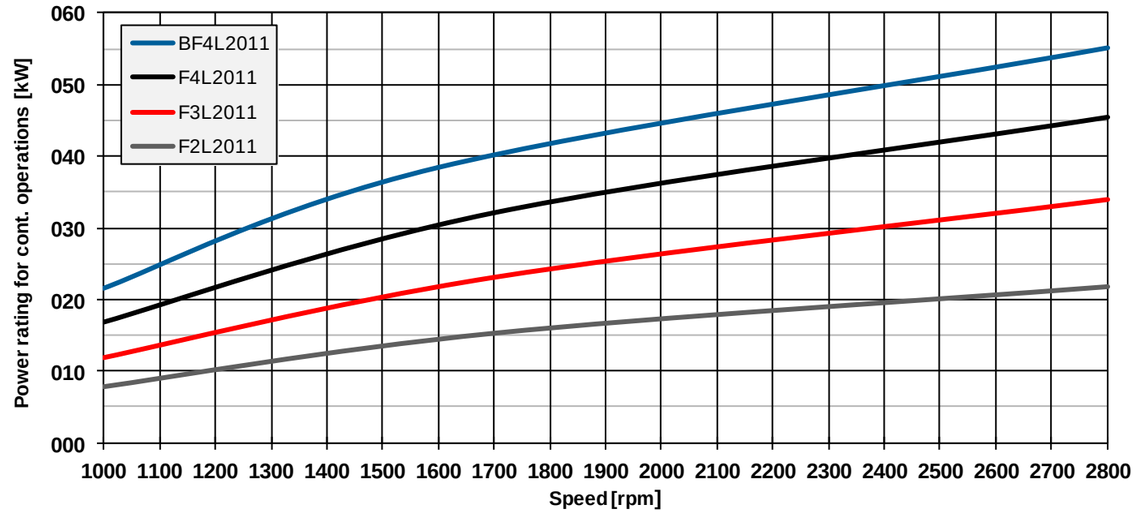
ENGINE DATA

ENGINE	F2L2011	F3L2011	F4L2011	BF4L2011
No. of cylinders	2	3	4	4
Power rating for interm. operations[1)]	22.5 kW | 30.2 hp	35.8 kW | 48.0 hp	47.8 kW | 64.1 hp	58.1 kW | 77.9 hp
Power rating for cont. operations[2)]	21.8 kW | 29.2 hp	34.0 kW | 45.6 hp	45.5 kW | 61.0 hp	55.1 kW | 73.9 hp
Max. nominal speed	2800 rpm	2800 rpm	2800 rpm	2800 rpm
Specific fuel consumption[3)]	220 g/kWh	218 g/kWh	214 g/kWh	205 g/kWh
Adapter housing	SAE 4	SAE 4	SAE 4	SAE 4
Flywheel	SAE 8” / 10”	SAE 8” / 10”	SAE 8” / 10”	SAE 8” / 10”

1) For intermittent operations at max. nominal speed. According to ISO 3046-1 and without deduction of fan power
2) For continuous operations at max. nominal speed. According to ISO 3046-1 and without deduction of fan power
3) Best point consumption refers to diesel with a density of 0.835 kg/dm3 at 15°C

The engine company.

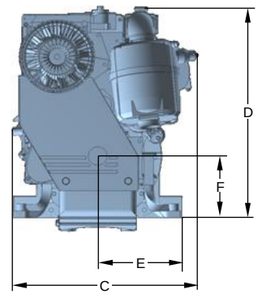
POWER CURVE

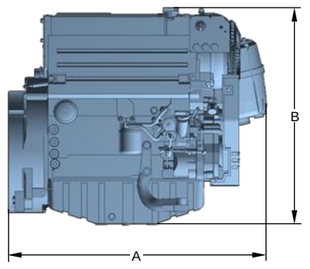


BASE ENGINE DIMENSIONS

ENGINE	F2L2011	F3L2011	F4L2011	BF4L2011[4)]
A	645 mm	756 mm	867 mm	777 mm
B	707 mm	701 mm	726 mm	718 mm
C	560 mm	560 mm	560 mm	534 mm
D	681 mm	681 mm	681 mm	674 mm
E	267 mm	267 mm	267 mm	267 mm
F	200 mm	200 mm	200 mm	200 mm

4) Dimensions without mounted air cleaner and silencers





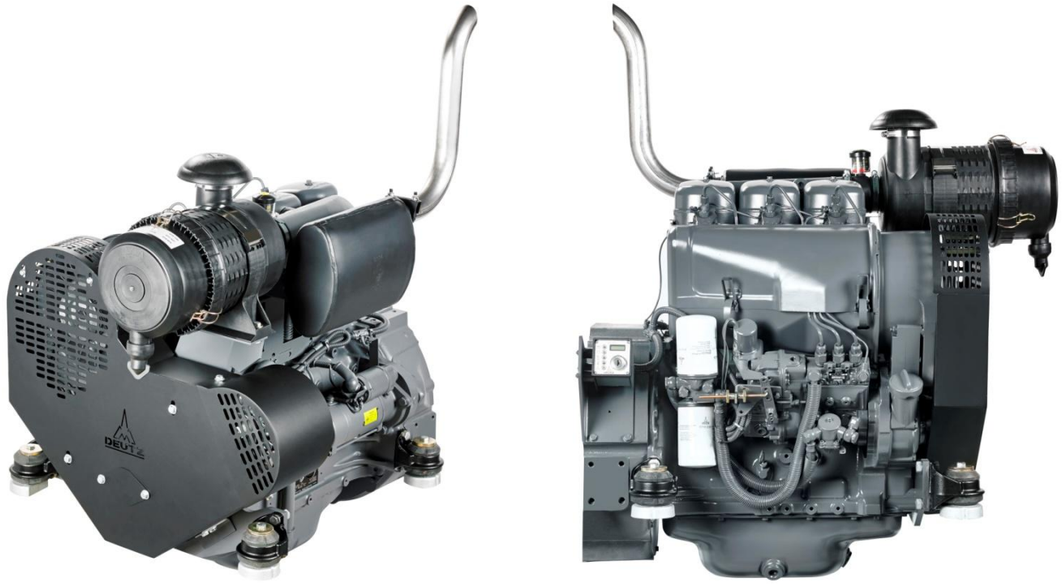
DEUTZ DRIVE

AIR COOLED ENGINES

912 SERIES

36.0 – 78.0 kW at 2300 rpm

- **Compact air cooled** engines with integrated cooling system
- **3 to 6 cylinder naturally aspirated** engines in inline arrangement
- **Low maintenance costs** due to individual cylinder heads and no external cooling system



F3L912 DEUTZ DRIVE Power Pack

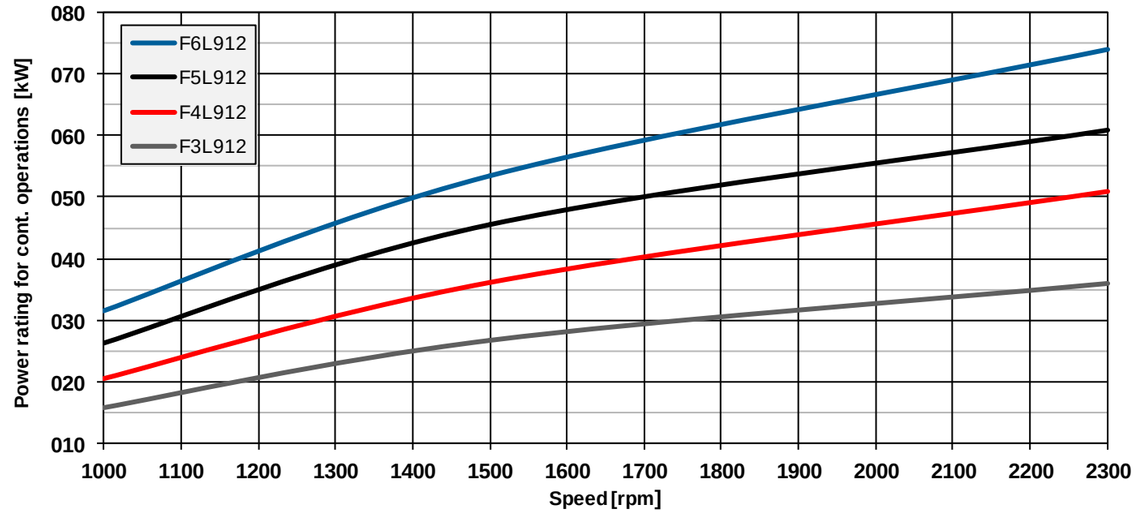
ENGINE DATA

ENGINE	F3L912	F4L912	F5L912	F6L912
No. of cylinders	3	4	5	6
Power rating for interm. operations[1)]	38.0 kW | 51.0 hp	51.0 kW | 68.4 hp	65.0 kW | 87.2 hp	78.0 kW | 104.6 hp
Power rating for cont. operations[2)]	36.0 kW | 48.3 hp	49.0 kW | 65.7 hp	61.0 kW | 81.8 hp	74.0 kW | 99.2 hp
Max. nominal speed	2300 rpm	2300 rpm	2300 rpm	2300 rpm
Specific fuel consumption[3)]	215 g/kWh	215 g/kWh	215 g/kWh	215 g/kWh
Adapter housing	SAE 3	SAE 3	SAE 3	SAE 3
Flywheel	SAE 8” / 10”	SAE 8” / 10”	SAE 10” / 11.5”	SAE 10” / 11.5”

1) For intermittent operations at max. nominal speed. According to ISO 3046-1 and without deduction of fan power
2) For continuous operations at max. nominal speed. According to ISO 3046-1 and without deduction of fan power
3) Best point consumption refers to diesel with a density of 0.835 kg/dm3 at 15°C

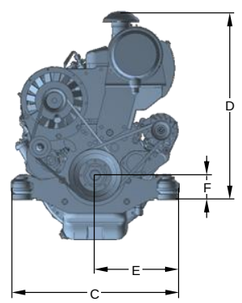
The engine company.

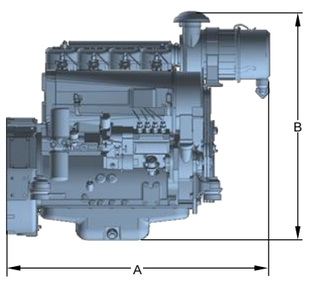
POWER CURVE



BASE ENGINE DIMENSIONS

ENGINE	F3L912	F4L912	F5L912	F6L912
A	944 mm	1084 mm	1237 mm	1443 mm
B	939 mm	939 mm	979 mm	949 mm
C	690 mm	690 mm	690 mm	690 mm
D	774 mm	774 mm	774 mm	774 mm
E	345 mm	345 mm	345 mm	345 mm
F	100 mm	100 mm	100 mm	100 mm





DEUTZ DRIVE

AIR COOLED ENGINES

914 SERIES

57.0 – 129.0 kW at 2300 rpm

- **Compact air cooled** engines with integrated cooling system
- **4 and 6 cylinder naturally aspirated and turbo charged** engines in inline arrangement
- **Low maintenance costs** due to individual cylinder heads and no external cooling system

BF6L914 DEUTZ DRIVE Power Pack

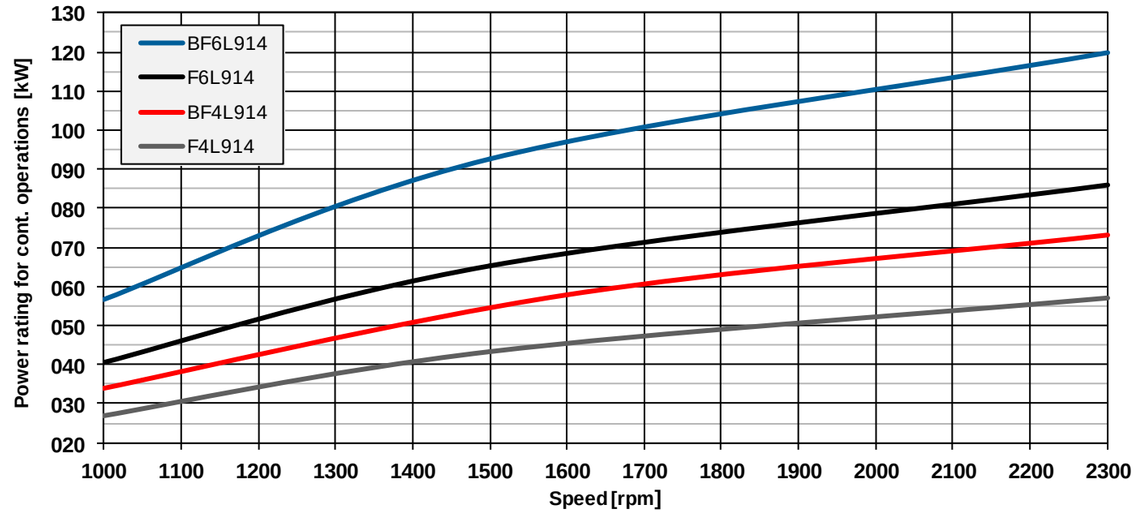
ENGINE DATA

ENGINE	F4L914	BF4L914	F6L914	BF6L914
No. of cylinders	4	4	6	6
Power rating for interm. operations[1)]	60.0 kW | 80.5 hp	73.0 kW | 97.9 hp	90.5 kW | 121.4 hp	129.0 kW | 173.0 hp
Power rating for cont. operations[2)]	57.0 kW | 76.4 hp	78.0 kW | 104.6 hp	86.0 kW | 115.3 hp	120.0 kW | 160.9 hp
Max. nominal speed	2300 rpm	2300 rpm	2300 rpm	2300 rpm
Specific fuel consumption[3)]	215 g/kWh	210 g/kWh	215 g/kWh	208 g/kWh
Adapter housing	SAE 3	SAE 3	SAE 3	SAE 3
Flywheel	SAE 8” / 10”	SAE 10” / 11.5”	SAE 10” / 11.5”	SAE 10” / 11.5”

1) For intermittent operations at max. nominal speed. According to ISO 3046-1 and without deduction of fan power
2) For continuous operations at max. nominal speed. According to ISO 3046-1 and without deduction of fan power
3) Best point consumption refers to diesel with a density of 0.835 kg/dm3 at 15°C

The engine company.

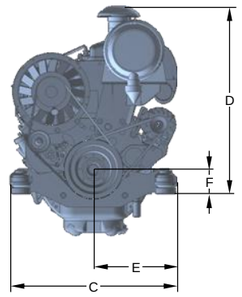
POWER CURVE

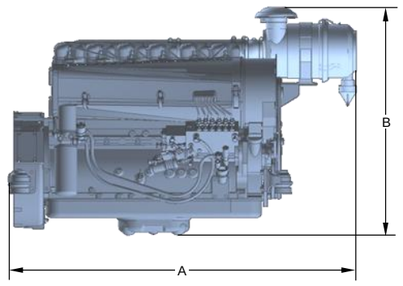


BASE ENGINE DIMENSIONS

ENGINE	F4L914	BF4L914[4)]	F6L914	BF6L914[4)]
A	1103 mm	910 mm	1443 mm	1319 mm
B	939 mm	838 mm	949 mm	875 mm
C	690 mm	690 mm	690 mm	708 mm
D	774 mm	673 mm	774 mm	694 mm
E	345 mm	345 mm	345 mm	345 mm
F	100 mm	100 mm	100 mm	100 mm

4) Dimensions without mounted air cleaner and silencers





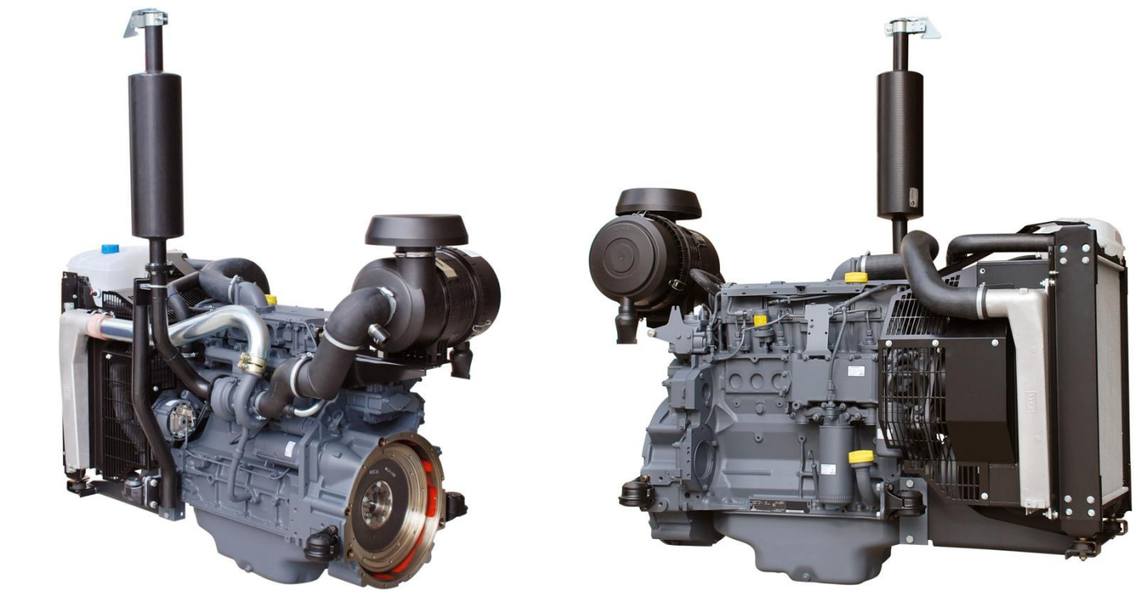
DEUTZ DRIVE

WATER COOLED ENGINES

1013 SERIES

86.0 – 165.0 kW at 2300 rpm

- **Water cooled engines** with externally mounted cooling system
- **4 and 6 cylinder turbo charged inline engines** with charge air cooling option
- **Reduced running and service costs** due to wet cylinder liners and long oil change intervals



BF4M1013 EC DEUTZ DRIVE Power Pack

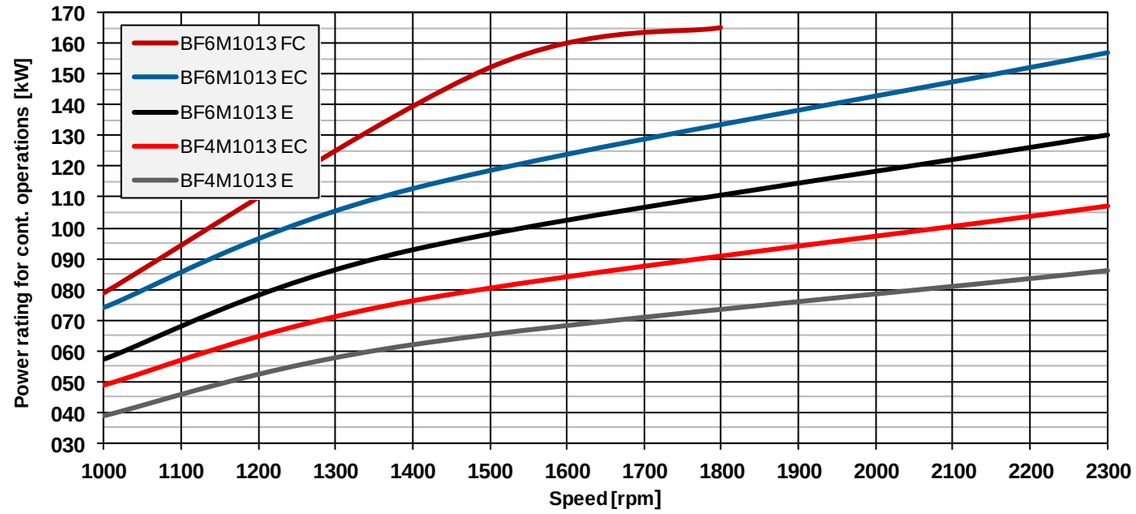
ENGINE DATA

ENGINE	BF4M1013 E	BF4M1013 EC	BF6M1013 E	BF6M1013 EC	BF6M1013 FC
No. of cylinders	4	4	6	6	6
Power rating for interm. operations[1)]	90.0 kW | 120.1 hp	115.0 kW | 154.2 hp	137.0 kW | 183.7 hp	165.0 kW | 221.3 hp	175.0 kW | 234.7 hp
Power rating for cont. operations[2)]	86.0 kW | 115.3 hp	107.0 kW | 143.5 hp	130.0 kW | 174.3 hp	157.0 kW | 210.5 hp	165.0 kW | 221.3 hp
Max. nominal speed	2300 rpm	2300 rpm	2300 rpm	2300 rpm	1800 rpm
Specific fuel consumption[3)]	205 g/kWh	205 g/kWh	205 g/kWh	205 g/kWh	205 g/kWh
Adapter housing	SAE 3	SAE 3	SAE 3	SAE 3	SAE 3
Flywheel	SAE 10” / 11.5”	SAE 10” / 11.5”	SAE 10” / 11.5”	SAE 10” / 11.5”	SAE 10” / 11.5”

1) For intermittent operations at max. nominal speed. According to ISO 3046-1 and without deduction of fan power
2) For continuous operations at max. nominal speed. According to ISO 3046-1 and without deduction of fan power
3) Best point consumption refers to diesel with a density of 0.835 kg/dm3 at 15°C

The engine company.

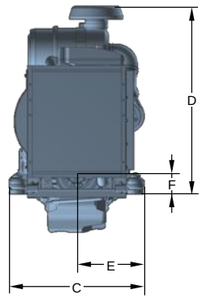
POWER CURVE

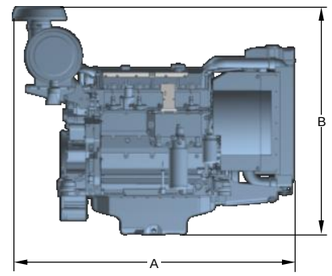


BASE ENGINE DIMENSIONS

ENGINE	BF4M1013 E[4)]	BF4M1013 EC[4)]	BF6M1013 E[4)]	BF6M1013 EC[4)]	BF6M1013 FC[4)]
A	1430 mm	1547 mm	1712 mm	1881 mm	1881 mm
B	1151 mm	1151 mm	1239 mm	1239 mm	1239 mm
C	690 mm	732 mm	748 mm	873 mm	873 mm
D	956 mm	956 mm	994 mm	994 mm	994 mm
E	345 mm	345 mm	345 mm	345 mm	345 mm
F	100 mm	100 mm	100 mm	100 mm	100 mm

4) Dimensions without mounted silencers





OVERVIEW

Engine Type	Cooling Medium	Power Rating for cont. Operations	Nominal Speed	Mounted Cooler	Mounted Silencer	Mounted Air Cleaner	Guarding (AS4024)	Flexible Engine Mounts	Rigid Engine Mounts	Hydraulic Pump Drive	Speed Control	Stub Shaft	Protection Panel	Industrial Panel	Irrigation Panel	First Engine Fill
F2L2011	Air - Oil	21.8 kW	2800 rpm	▲	▲	▲	▲	○	▲	○	○	○	○	○	○	○
F3L2011	Air - Oil	34.0 kW	2800 rpm	▲	▲	▲	▲	○	▲	○	○	○	○	○	○	○
F4L2011	Air - Oil	45.4 kW	2800 rpm	▲	▲	▲	▲	○	▲	○	○	○	○	○	○	○
BF4L2011	Air - Oil	55.1 kW	2800 rpm	▲	■	■	▲	○	▲	○	○	○	○	○	○	○
F3L912	Air	36.0 kW	2300 rpm		▲	▲	■	▲	○	○	○	○	○	○	○	○
F4L912	Air	49.0 kW	2300 rpm		▲	▲	■	▲	○	○	○	○	○	○	○	○
F4L914	Air	57.0 kW	2300 rpm		▲	▲	■	▲	○	○	○	○	○	○	○	○
F5L912	Air	61.0 kW	2300 rpm		▲	▲	■	▲	○	○	○	○	○	○	○	○
BF4L914	Air	73.0 kW	2300 rpm		■	■	■	▲	○	○	○	○	○	○	○	○
F6L912	Air	74.0 kW	2300 rpm		▲	▲	■	▲	○	○	○	○	○	○	○	○
F6L914	Air	86.0 kW	2300 rpm		▲	▲	■	▲	○	○	○	○	○	○	○	○
BF6L914	Air	120.0 kW	2300 rpm		■	■	■	▲	○	○	○	○	○	○	○	○
BF4M1013 E	Water	86.0 kW	2300 rpm	▲	■	▲	■	▲	○	○	○	○	○	○	○	○
BF4M1013 EC	Water	107.0 kW	2300 rpm	▲	■	▲	■	▲	○	○	○	○	○	○	○	○
BF6M1013 E	Water	130.0 kW	2300 rpm	▲	■	▲	■	▲	○	○	○	○	○	○	○	○
BF6M1013 EC	Water	157.0 kW	2300 rpm	▲	■	▲	■	▲	○	○	○	○	○	○	○	○
BF6M1013 FC	Water	165.0 kW	1800 rpm	▲	■	▲	■	▲	○	○	○	○	○	○	○	○

▲ BASE ENGINE ■ DEUTZ DRIVE POWER PACK ○ DEUTZ DRIVE OPTION

The engine company.

DEUTZ®

DEUTZ Australia Pty Ltd.
Unit 4, 13-15 Brough Street
Springvale, VIC 3171
Australia

Telephone: +61 3 9549 8400
Facsimile: +61 3 9549 8490
Email: deutzoz@deutz.com
Web: www.deutz.com.au

The engine company.

DEUTZ®