

The engine company.



THE DEUTZ POWER PACK SERIES.

Product Overview.

FACTS.

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.

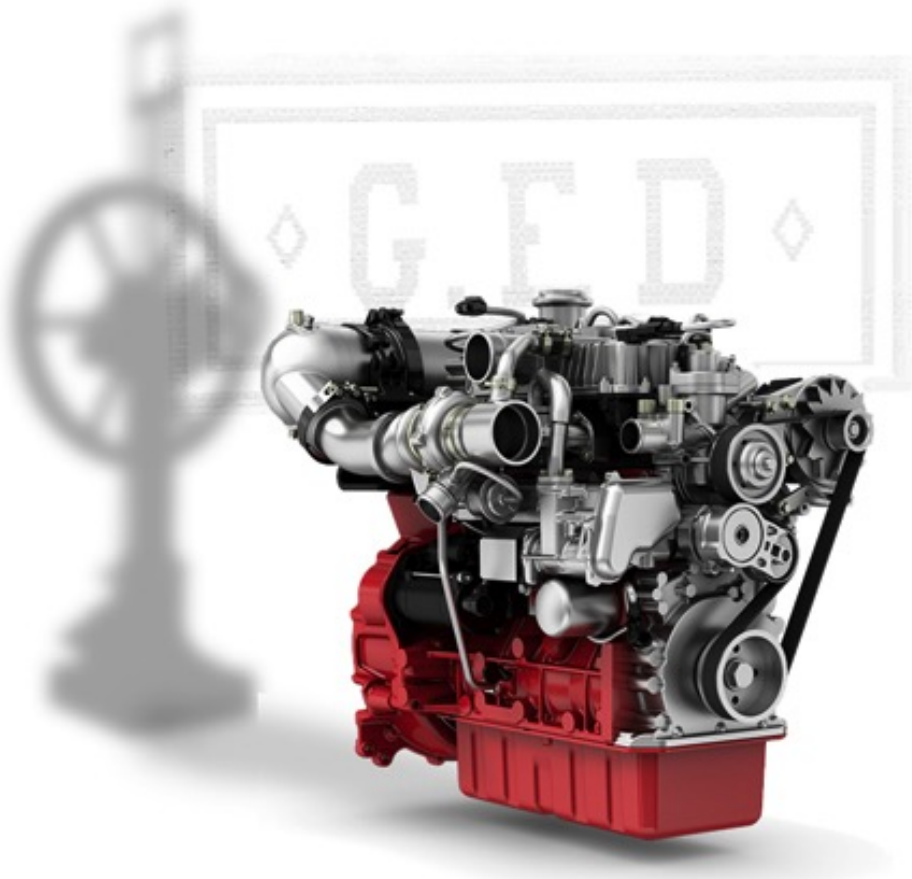
DEUTZ Australia – Our origins.

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.



The engine company.



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 620kW covers all areas of mobile and stationary applications.



Engine technology for tomorrow.

CONCEPT.

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

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 charged engines
- 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 CUSTOMISED OPTIONS

Solutions to suit any application:

- Engine Mounting: various flexible engine mounts
- Hayes Hydraulic Pump Drives
- 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
- Hayes Sideload Kits
- PTO Clutches

DEUTZ DRIVE 2011 Series

2011 SERIES

- 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



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 with deduction of fan power

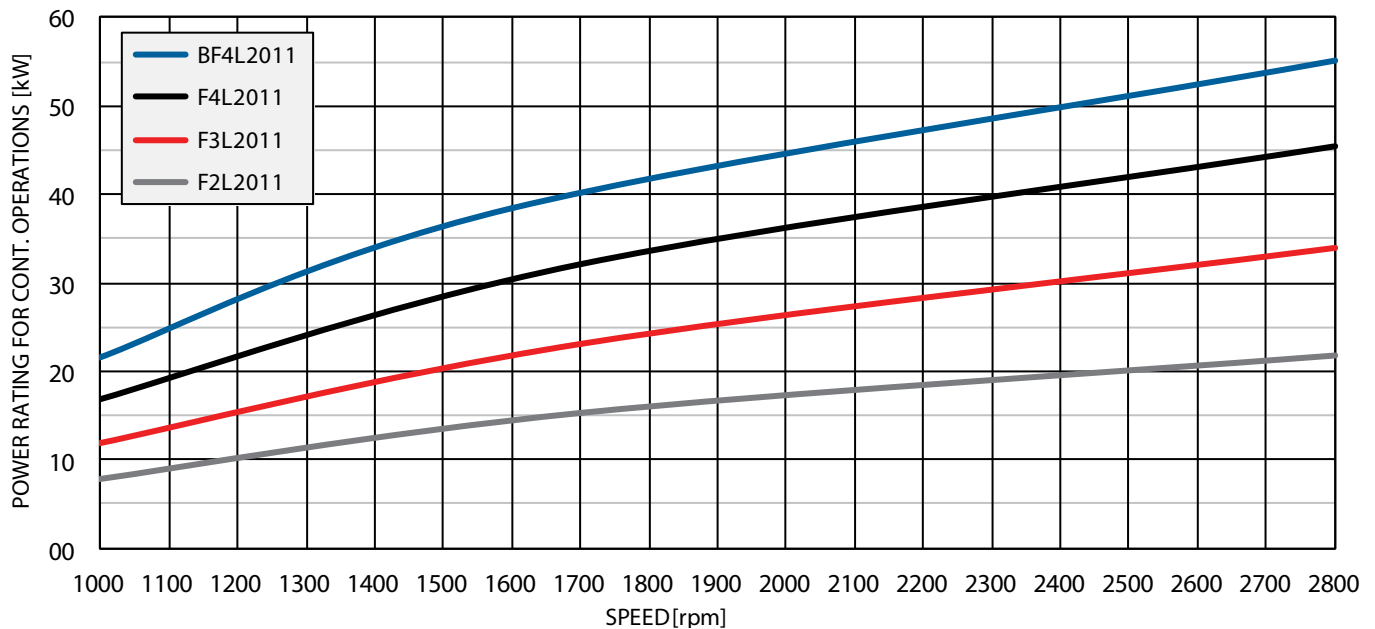
2) For continuous operations at max. nominal speed. According to ISO 3046-1 and with deduction of fan power

3) Best point consumption refers to diesel with a density of 0.835 kg/dm³ at 15°C

AIR-OIL COOLED ENGINES.

21.8 – 58.1 kW at 2800 rpm

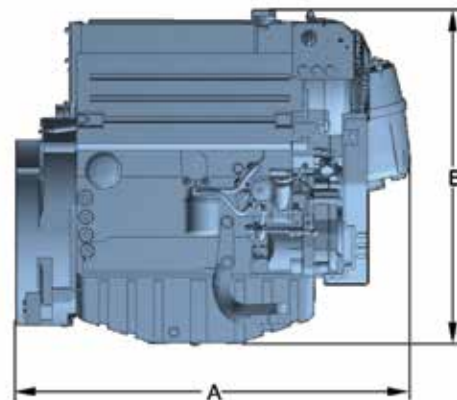
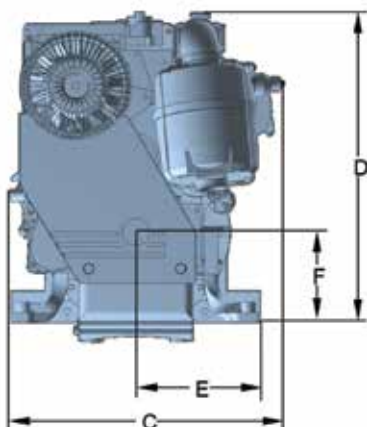
POWER CURVES



BASE ENGINE DIMENSIONS

| ENGINE | F2L2011 | F3L2011 | F4L2011 | BF4L2011 ¹ |
|--------|---------|---------|---------|-----------------------|
| 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 |

1) Dimensions without mounted air cleaner and silencers



DEUTZ DRIVE 912 Series

912 SERIES

- 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



ENGINE DATA

| ENGINE | F4L912 | F6L912 |
|--|--------------------|---------------------|
| No. of cylinders | 4 | 6 |
| Power rating for interm. operations ¹ | 51.0 kW 68.4 hp | 78.0 kW 104.6 hp |
| Power rating for cont. operations ² | 49.0 kW 65.7 hp | 74.0 kW 99.2 hp |
| Max. nominal speed | 2300 rpm | 2300 rpm |
| Specific fuel consumption ³ | 215 g/kWh | 215 g/kWh |
| Adapter housing | SAE 3 | SAE 3 |
| Flywheel | SAE 8" / 10" | SAE 10" / 11.5" |

1) For intermittent operations at max. nominal speed. According to ISO 3046-1 and with deduction of fan power

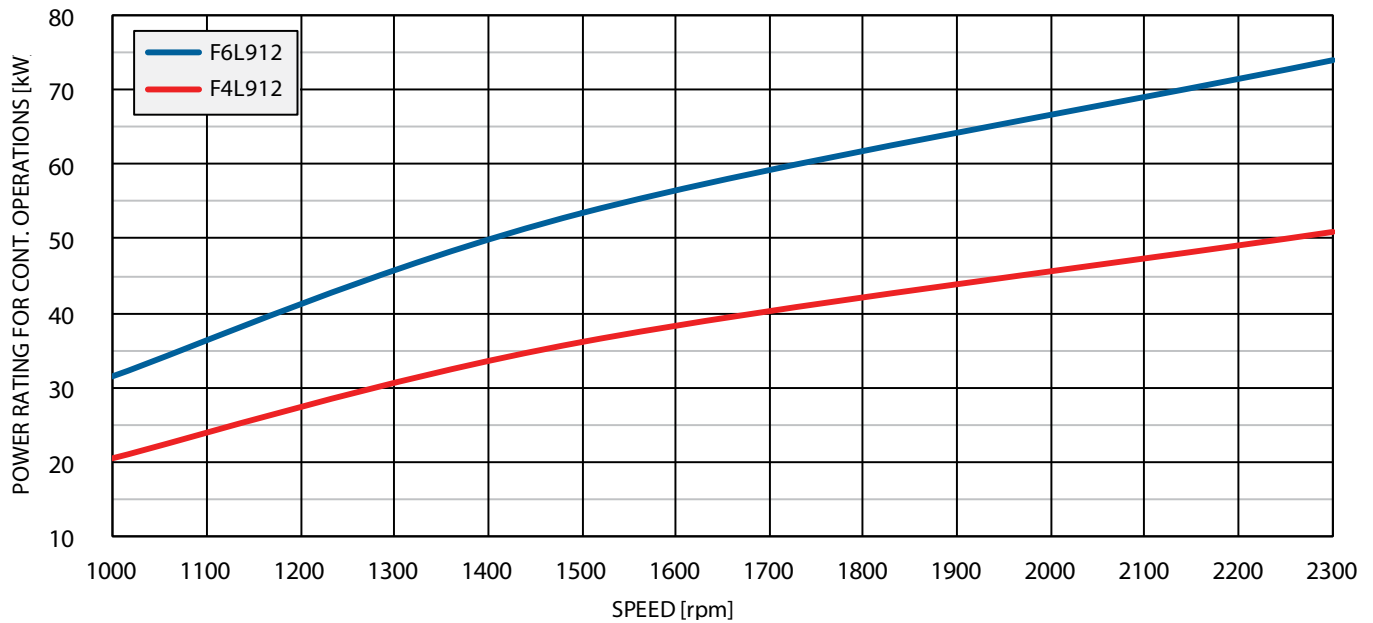
2) For continuous operations at max. nominal speed. According to ISO 3046-1 and with deduction of fan power

3) Best point consumption refers to diesel with a density of 0.835 kg/dm³ at 15°C

AIR COOLED ENGINES.

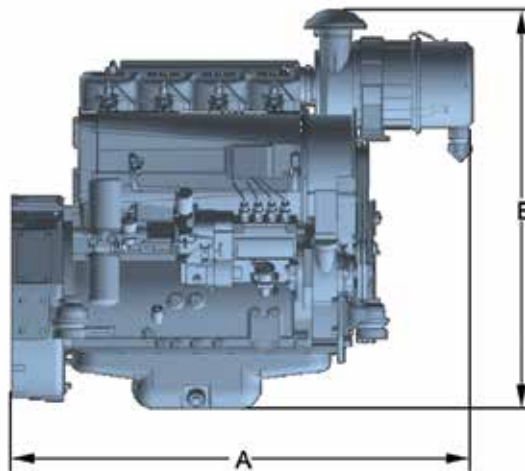
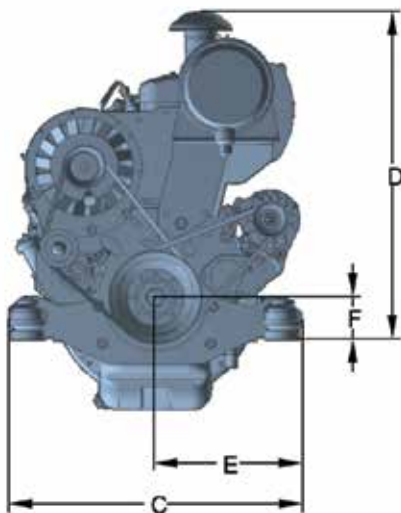
49.0 – 78.0 kW at 2300 rpm

POWER CURVES



BASE ENGINE DIMENSIONS

| ENGINE | F4L912 | F6L912 |
|--------|---------|---------|
| A | 1084 mm | 1443 mm |
| B | 939 mm | 949 mm |
| C | 690 mm | 690 mm |
| D | 774 mm | 774 mm |
| E | 345 mm | 345 mm |
| F | 100 mm | 100 mm |



The engine company.



DEUTZ DRIVE 914 Series

914 SERIES

- 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



ENGINE DATA

| ENGINE | F4L914 | BF4L914 | F6L914 | BF6L914 |
|--|--------------------|---------------------|---------------------|----------------------|
| No. of cylinders | 4 | 4 | 6 | 6 |
| Power rating for intern. operations ¹ | 60.0 kW 80.5 hp | 78.0 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 | 73.0 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 with deduction of fan power

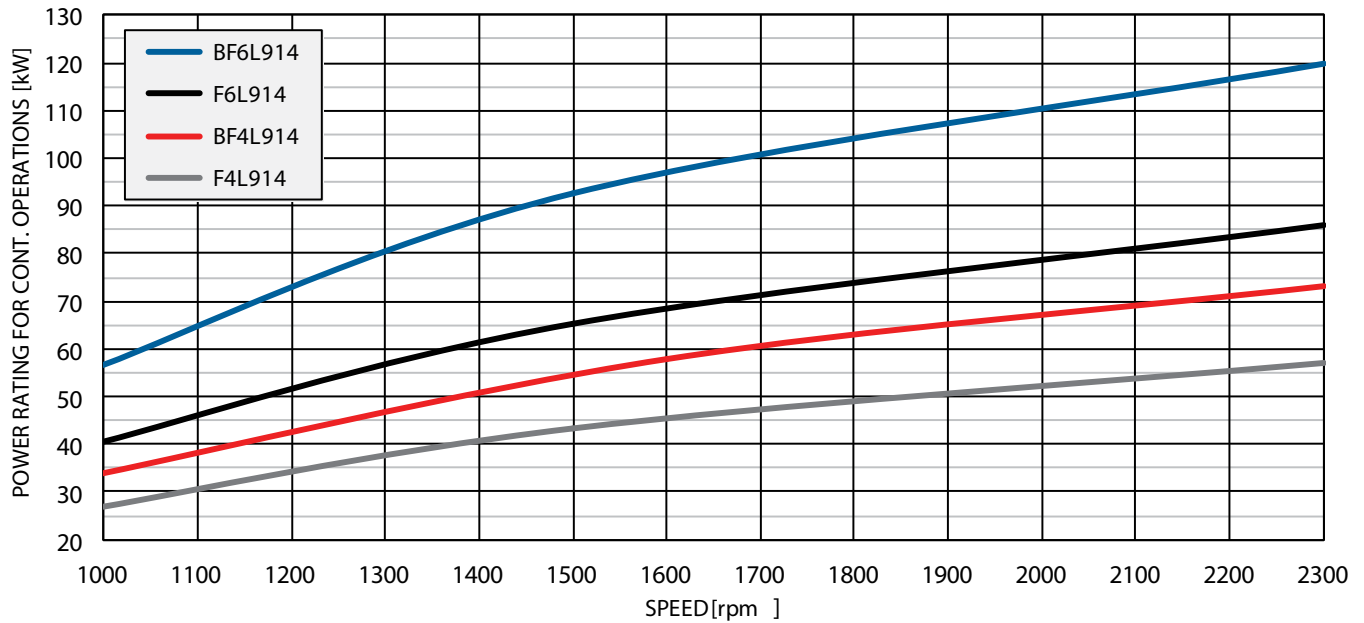
2) For continuous operations at max. nominal speed. According to ISO 3046-1 and with deduction of fan power

3) Best point consumption refers to diesel with a density of 0.835 kg/dm³ at 15°C

AIR COOLED ENGINES.

57.0 – 129.0 kW at 2300 rpm

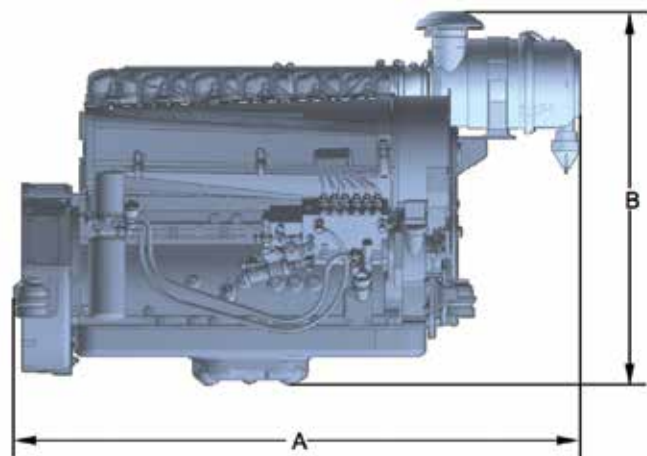
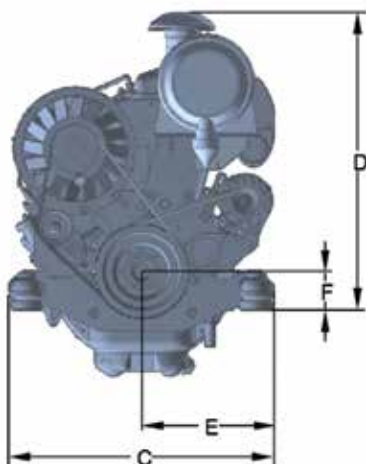
POWER CURVES



BASE ENGINE DIMENSIONS

| ENGINE | F4L914 | BF4L914 ¹ | F6L914 | BF6L914 ¹ |
|--------|---------|----------------------|---------|----------------------|
| 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 |

1) Dimensions without mounted air cleaner and silencers



DEUTZ DRIVE 1013 Series

1013 SERIES

- 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



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

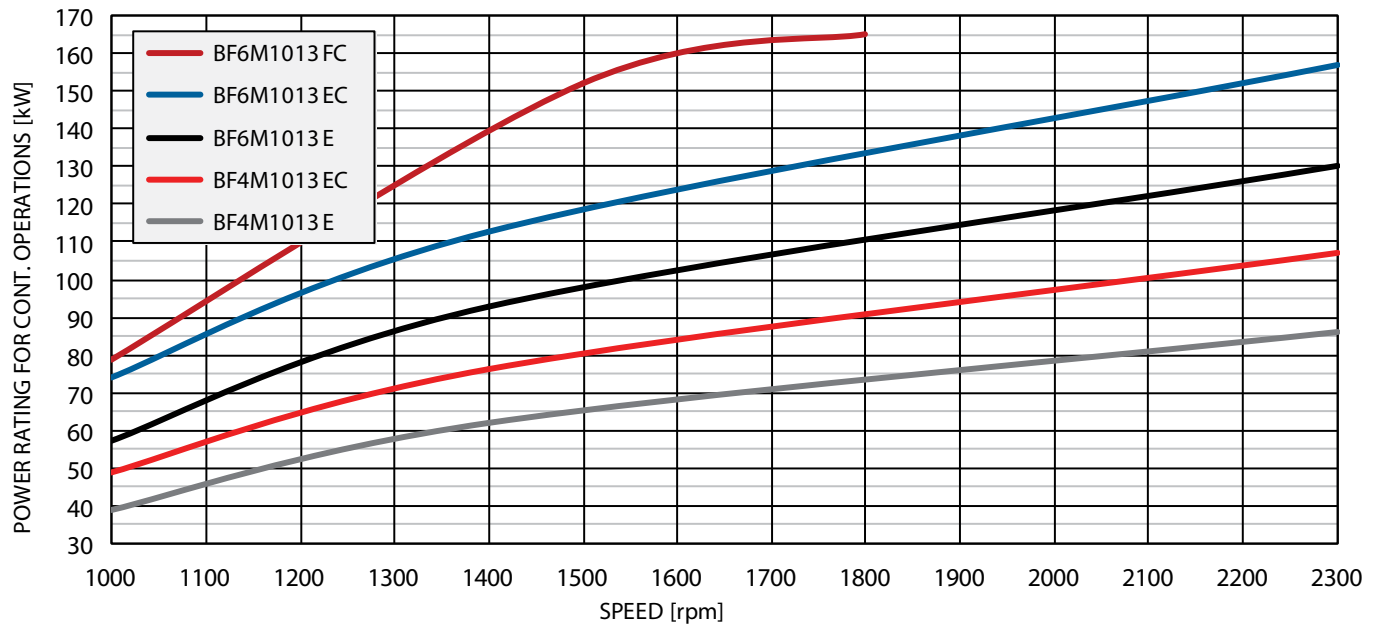
2) For continuous operations at max. nominal speed. According to ISO 3046-1 and without deduction of fan power

3) Best point consumption refers to diesel with a density of 0.835 kg/dm³ at 15°C

WATER COOLED ENGINES.

86.0 – 165.0 kW at 2300 rpm

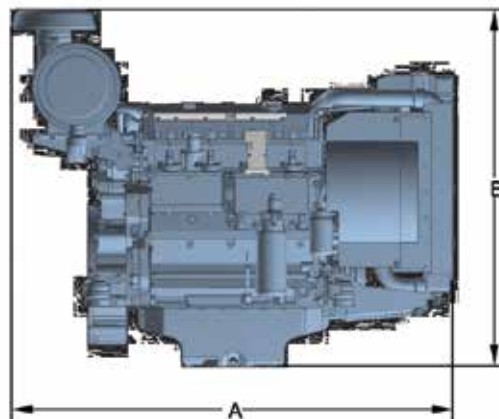
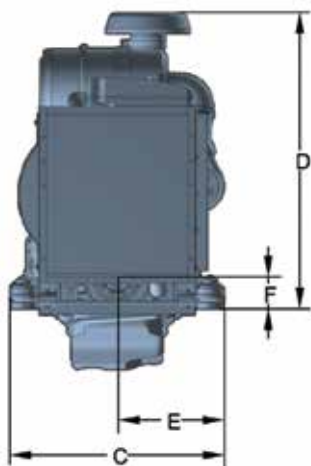
POWER CURVES



BASE ENGINE DIMENSIONS

| ENGINE | BF4M1013 E | BF4M1013 EC | BF6M1013 E | BF6M1013 EC | BF6M1013 FC |
|--------|------------|-------------|------------|-------------|-------------|
| 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 |

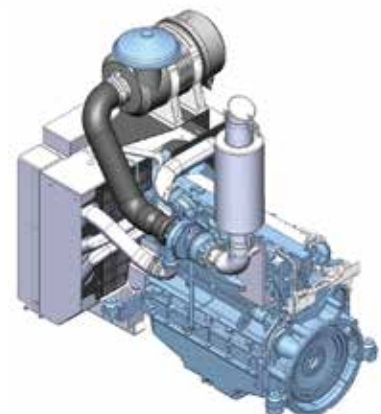
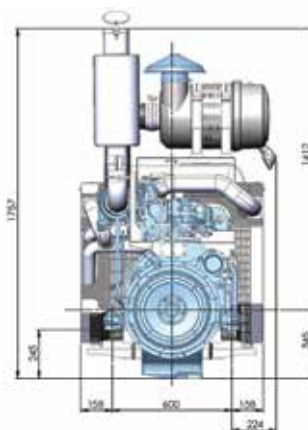
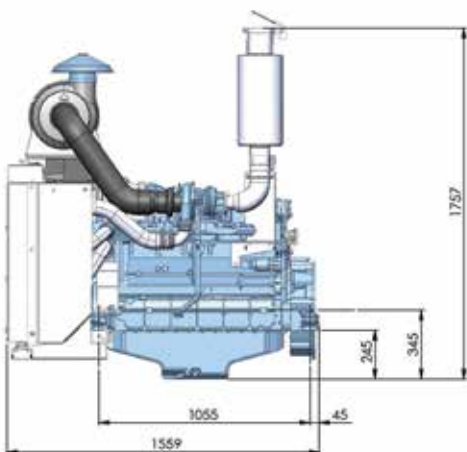
All dimensions are without mounted silencers



DEUTZ DRIVE TCD 2013 L06 2V

TCD 2013 L06 2V

- Water-cooled 6-cylinder inline engine with turbocharging and charge air cooling
- The powerful DEUTZ Common-Rail (DCR®) injection system and the electronic engine control (EMR 3) with intelligent link to the drive management ensure optimum engine performance at low fuel consumption
- Best cold starting properties even under extreme conditions
- Low noise emissions due to acoustically optimised components with very smooth running and high durability
- The compact engine design and three PTO drive possibilities integrated into the gear drive reduce the installation costs and increase the number of applications
- Wet cylinder liners, long oil change intervals and easy changing of the engine fluids reduce the running and service costs and increase the availability of the machinery
- The robust engine design allows world- wide operation even with high sulphur fuels



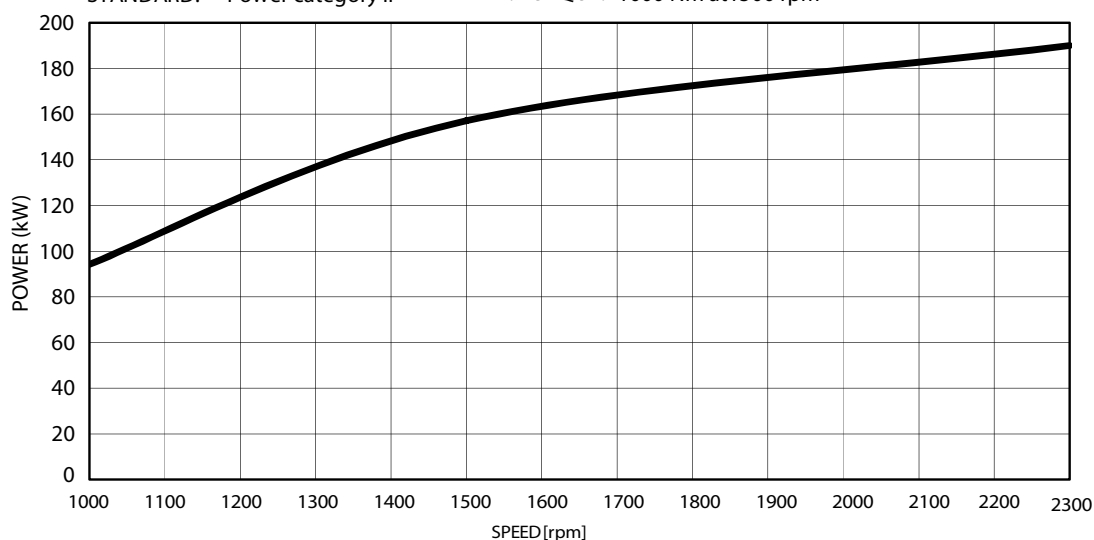
ENGINE DATA

| ENGINE TYPE | UNITS | TCD 2013 L6 2V |
|---------------------------|----------------|-------------------|
| No. of cylinders | | 6 |
| Bore/stroke | mm in | 108/130 4.3/5.1 |
| Capacity | l cu in | 7.2 439.4 |
| Compression ratio | | 18.1:1 |
| Nominal speeds | min-1 rpm | 1800-2300 |
| Power output | kW hp | 190 254 |
| At speed | min-1 rpm | 2300 |
| Max. torque | Nm lb/ft | 1000 737.5 |
| At speed | min-1 rpm | 1500 |
| Minimum idling speed | min-1 rpm | 650 |
| Specific fuel consumption | g/kWh lb/hph | 205 0.337 |
| Weight (approx.) | Kg/lb | 810/1786 |

POWER CURVE

ENGINE TYPE: TCD2013 L06 2V
STANDARD: Power category II

RATED POWER: 190 kW at 2300 rpm
MAX. TORQUE: 1000 Nm at 1500 rpm



ENGINE DATA

| TCD 2013 SERIES POWER RATING | | | | | | | |
|------------------------------|----------------|--------------------------|---------------|----------------|------------------|---------------------|-------------------|
| ENGINE TYPE | COOLING MEDIUM | POWER RATING FOR CONT OP | NOMINAL SPEED | MOUNTED COOLER | MOUNTED SILENCER | MOUNTED AIR CLEANER | GUARDING (AS4024) |
| TCD2013L06 2V | Water | 190kW | 2300 rpm | ▲ | ▲ | ▲ | ▲ |

DEUTZ DRIVE BFM1015 C & BFM1015 CP

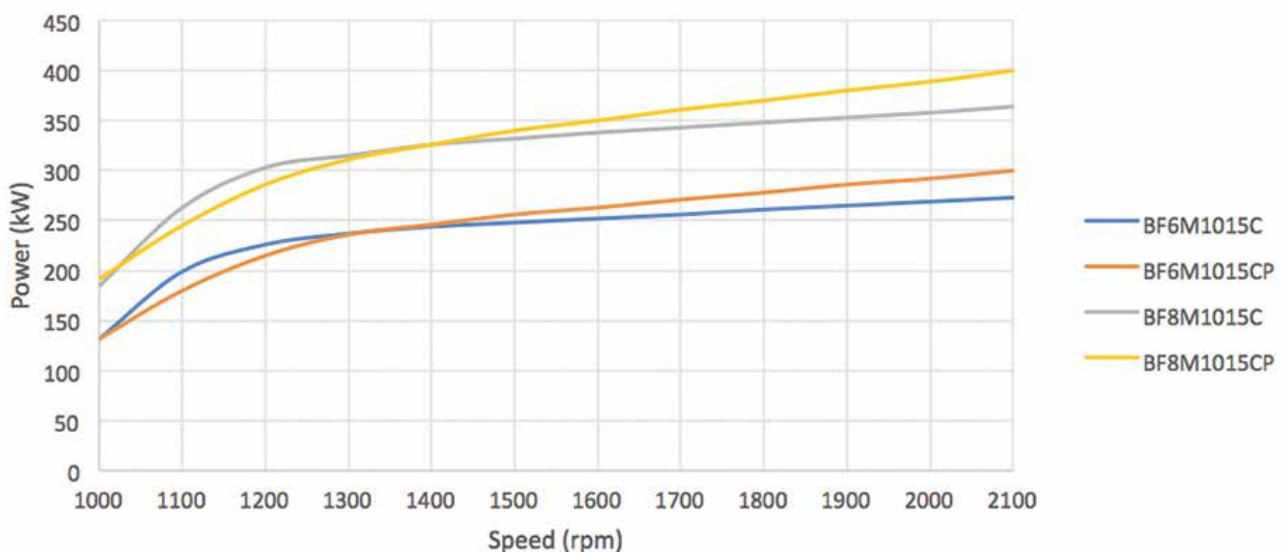
BFM1015 C and BFM1015 CP

- Water-cooled V6 and V8 engines with turbocharging, charge air cooling and four-valve technology.
- Very compact engine design reduces the installation costs.
- Wet cylinder liners, long oil change intervals and easy changing of the engine fluids reduce the running and service costs and increase the availability of the machinery.
- Best cold starting performance even under extreme conditions.
- Robust and reliable mechanical injection system.
- Also available with an electronic motor regulator (EMR) to allow easy integration into the electronic device control and monitoring system.
- Low noise emissions due to acoustically optimized components with very smooth running and high durability.
- The robust engine design allows worldwide operation even with high sulphur fuels

ENGINE DATA

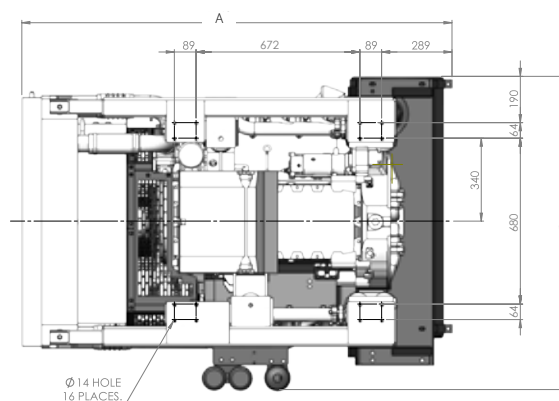
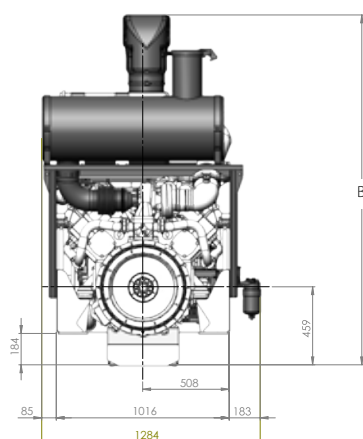
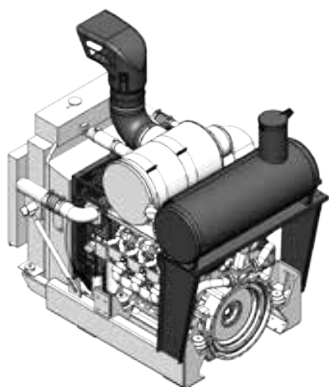
| 1015 SERIES POWER RATINGS | | | | | | | |
|---------------------------|----------------|--------------------------|---------------|----------------|------------------|---------------------|-------------------|
| ENGINE TYPE | COOLING MEDIUM | POWER RATING FOR CONT OP | NOMINAL SPEED | MOUNTED COOLER | MOUNTED SILENCER | MOUNTED AIR CLEANER | GUARDING (AS4024) |
| BF6M1015 C | Water | 273 kW | 2100 rpm | ▲ | ▲ | ▲ | ▲ |
| BF6M1015 CP | Water | 300 kW | 2100 rpm | ▲ | ▲ | ▲ | ▲ |
| BF8M1015 C | Water | 364 kW | 2100 rpm | ▲ | ▲ | ▲ | ▲ |
| BF8M1015 CP | Water | 400 kW | 2100 rpm | ▲ | ▲ | ▲ | ▲ |

POWER CURVES



ENGINE DIMENSIONS

| 1015 SERIES DIMENSIONS | | | | |
|------------------------|------------|-------------|------------|-------------|
| ENGINE | BF6M1015 C | BF6M1015 CP | BF8M1015 C | BF8M1015 CP |
| A | 1763 mm | 1763 mm | 2073 mm | 2073 mm |
| B | 2056 mm | 2056 mm | 2056 mm | 2056 mm |
| C | 1284 mm | 1284 mm | 1284 mm | 1284 mm |
| D | 1016 mm | 1016 mm | 1016 mm | 1016 mm |
| E | 508 mm | 508 mm | 508 mm | 508 mm |



BF6M1015 C and BF6M1015 CP Power Pack dimensions are shown

OVERVIEW.

| ENGINE TYPE | COOLING MEDIUM | POWER RATING FOR CONT. OPERATIONS | NOMINAL SPEED | MOUNTED COOLER | MOUNTED SILENCER | MOUNTED AIR CLEANER | GUARDING (AS4024) |
|----------------|----------------|-----------------------------------|---------------|----------------|------------------|---------------------|-------------------|
| 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 | ▲ | ◆ | ▲ | ◆ |
| TCD 2013 06 2V | Water | 190kW | 2300rpm | ▲ | ◆ | ◆ | ◆ |
| BF6M1015 C | Water | 300kW | 2100rpm | ▲ | ◆ | ◆ | ◆ |
| BF6M1015 CP | Water | 330kW | 2100rpm | ▲ | ◆ | ◆ | ◆ |
| BF8M1015 C | Water | 400kW | 2100rpm | ▲ | ◆ | ◆ | ◆ |
| BF8M1015 CP | Water | 440kW | 2100rpm | ▲ | ◆ | ◆ | ◆ |

▲ BASE ENGINE

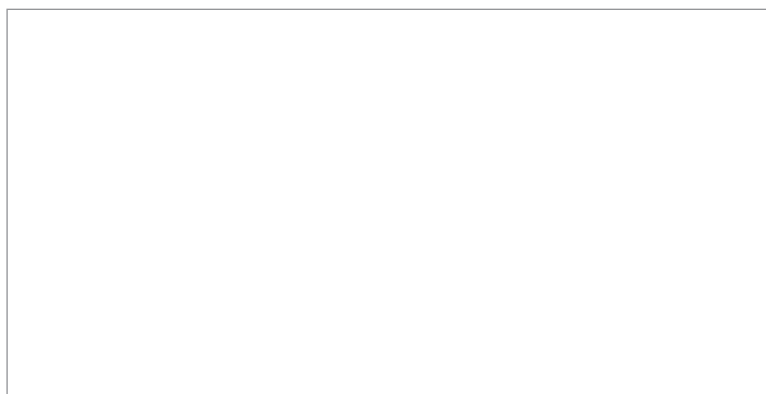
◆ DEUTZ DRIVE POWER PACK

● DEUTZ DRIVE OPTION

| FLEXIBLE ENGINE MOUNTS | RIGID ENGINE MOUNTS | HYDRAULIC PUMP DRIVE | SPEED CONTROL | STUB SHAFT | PROTECTION PANEL | INDUSTRIAL PANEL | IRRIGATION PANEL | FIRST ENGINE FILL |
|------------------------------|---------------------------|-------------------------|------------------|---------------|---------------------|---------------------|---------------------|-------------------------|
| ● | ▲ | ● | ● | ● | ● | ● | ● | ● |
| ● | ▲ | ● | ● | ● | ● | ● | ● | ● |
| ● | ▲ | ● | ● | ● | ● | ● | ● | ● |
| ● | ▲ | ● | ● | ● | ● | ● | ● | ● |
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