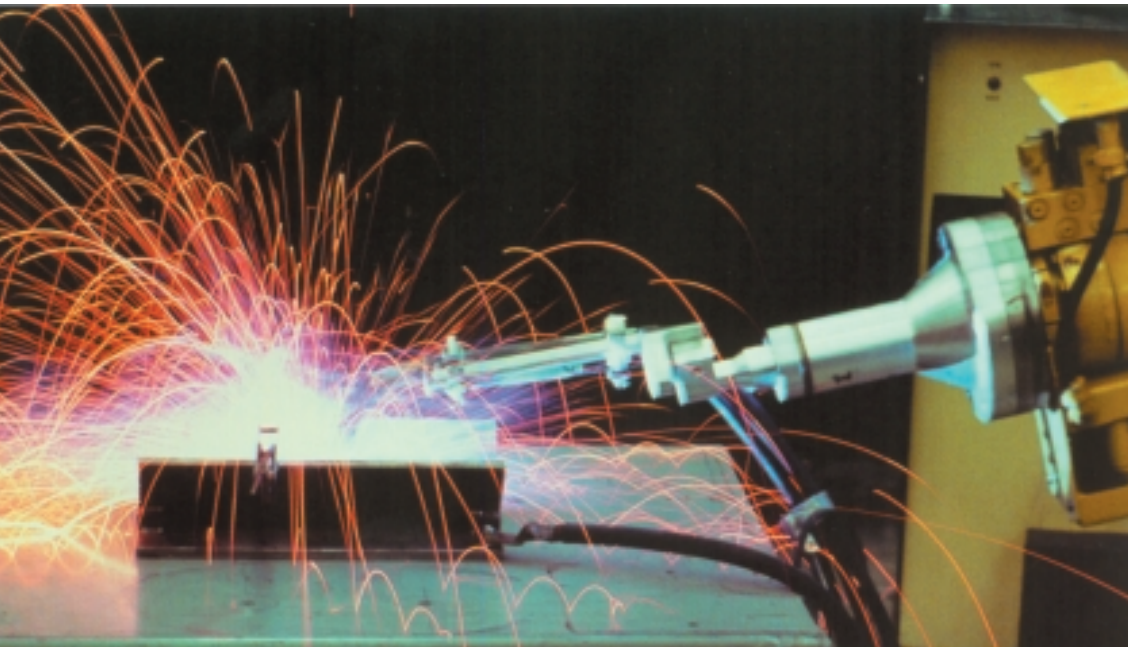


# 2011. The Genset Engine.

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



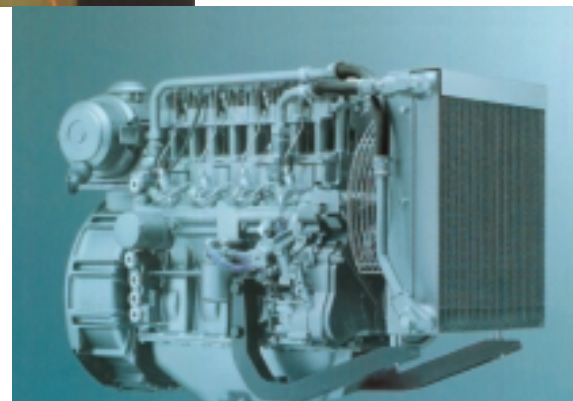
## The engine with external oil cooling system.

### 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.





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**Blue Ridge Diesel** is one of the leading import diesel engine houses on the east coast of the U.S. Our sales department personnel are qualified to assist you in the proper sizing and selection of an engine for your application. Whether you are working with industrial, construction, agricultural, marine, or mining equipment, our knowledgeable people can help in many ways. From equipment repowering to specifying an engine for new equipment, our competent sales staff is ready to assist you and answer any questions you may have.

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