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# 2011. The Genset Engine.

12-50 kVA at 1500/1800 min<sup>-1</sup> | rpm



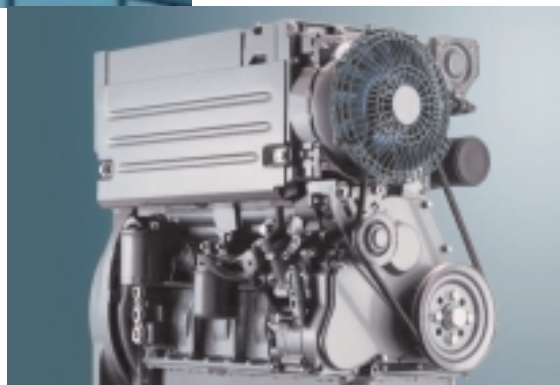
## The engine with integrated oil cooling system.

### 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.
- Integrated oil-cooling (engine is delivered complete with cooler).
- 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 service intervals: 1,000-hour oil change intervals and low fuel consumption bring savings in operating costs.
- ▶ Low installation costs.
- ▶ 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/integrated cooler

##### F2L 2011

|         |    |      |     |      |
|---------|----|------|-----|------|
| Length: | mm | inch | 645 | 25.2 |
| Width:  | mm | inch | 588 | 22.9 |
| Height: | mm | inch | 707 | 27.6 |
| Weight: | kg | lb   | 212 | 467  |

##### F3L 2011

|          |    |      |     |      |
|----------|----|------|-----|------|
| Length:  | mm | inch | 756 | 29.5 |
| Width:   | mm | inch | 588 | 22.9 |
| Height : | mm | inch | 701 | 27.3 |
| Weight   | kg | lb   | 254 | 560  |

##### F4L 2011

|          |    |      |     |      |
|----------|----|------|-----|------|
| Length:  | mm | inch | 868 | 33.9 |
| Width:   | mm | inch | 588 | 22.9 |
| Height : | mm | inch | 722 | 28.2 |
| Weight   | kg | lb   | 293 | 646  |

##### BF4L 2011

|          |    |      |     |      |
|----------|----|------|-----|------|
| Length:  | mm | inch | 778 | 30.3 |
| Width:   | mm | inch | 531 | 20.7 |
| Height : | mm | inch | 704 | 27.5 |
| Weight   | kg | lb   | 295 | 650  |

## ► Rating table: 2011. The Genset Engine. 50 Hz

| Engine type  |                         | F2L 2011    | F3L 2011    | F4L 2011    | BF 4L 2011  |
|--|-------------------------|-------------|-------------|-------------|-------------|
| Speed  | min <sup>-1</sup>   rpm | 1500        | 1500        | 1500        | 1500        |
| Frequency  | Hz                      | 50          | 50          | 50          | 50          |
| <b>Engine/genset ratings<sup>1)</sup></b>            |                         |             |             |             |             |
| Continuous power, ICN (COP) <sup>2)</sup>            | kW   hp                 | 11,4   15.5 | 18,1   24.6 | 26,2   35.6 | 34,6   47.1 |
| Prime power, ICN (PRP) <sup>3)</sup>                 | kW   hp                 | 12,0   16.3 | 19,0   25.8 | 27,6   37.5 | 36,4   49.5 |
| Limited-time running power, IFN (LTP) <sup>4)</sup>  | kW   hp                 | 12,6   17.1 | 20,0   27.2 | 29,0   39.4 | 38,2   52.0 |
| <b>Typical generator power output</b>                |                         |             |             |             |             |
| Typical generator power output (COP) <sup>5)</sup>   | kVA                     | 11,8        | 19,0        | 28,5        | 38,0        |
| Typical generator power output (PRP) <sup>5)</sup>   | kVA                     | 12,5        | 20,0        | 30,0        | 40,0        |
| Typical generator power output (LTP) <sup>5)</sup>   | kVA                     | 13,1        | 20,9        | 31,5        | 42,0        |
| <b>Spec. fuel consumption PRP (LTP)<sup>6)</sup></b> |                         |             |             |             |             |
| 100 % load   | g/kWh   lb/hp-hr        | 235   0.381 | 225   0.365 | 215   0.348 | 220   0.356 |
| 75 % load  | g/kWh   lb/hp-hr        | 245   0.397 | 230   0.373 | 220   0.356 | 225   0.365 |
| 50 % load  | g/kWh   lb/hp-hr        | 270   0.437 | 260   0.421 | 235   0.381 | 235   0.381 |
| 25 % load  | g/kWh   lb/hp-hr        | 400   0.648 | 450   0.729 | 350   0.567 | 320   0.518 |

## ► Rating table: 2011. The Genset Engine. 60 Hz

| Engine type  |                         | F2L 2011    | F3L 2011    | F4L 2011    | BF 4L 2011  |
|--|-------------------------|-------------|-------------|-------------|-------------|
| Speed  | min <sup>-1</sup>   rpm | 1800        | 1800        | 1800        | 1800        |
| Frequency  | Hz                      | 60          | 60          | 60          | 60          |
| <b>Engine/genset ratings<sup>1)</sup></b>            |                         |             |             |             |             |
| Continuous power, ICN (COP) <sup>2)</sup>            | kW   hp                 | 13,6   18.5 | 21,4   29.1 | 31,1   42.3 | 41,0   55.8 |
| Prime power, ICN (PRP) <sup>3)</sup>                 | kW   hp                 | 14,3   19.4 | 22,6   30.7 | 32,8   44.6 | 43,2   58.8 |
| Limited-time running power, IFN (LTP) <sup>4)</sup>  | kW   hp                 | 15,1   20.5 | 23,8   32.4 | 34,5   46.9 | 45,5   61.9 |
| <b>Typical generator power output</b>                |                         |             |             |             |             |
| Typical generator power output (COP) <sup>5)</sup>   | kVA/kWe                 | 14,3/11.3   | 22,5/18.0   | 33,8/27.0   | 45,0/36.0   |
| Typical generator power output (PRP) <sup>5)</sup>   | kVA/kWe                 | 14,9/11.9   | 23,8/19.0   | 35,6/28.5   | 47,4/38.0   |
| Typical generator power output (LTP) <sup>5)</sup>   | kVA/kWe                 | 15,7/12.5   | 25,0/20.0   | 37,4/30.0   | 49,9/40.0   |
| <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 | 220   0.356 |
| 75 % load  | g/kWh   lb/hp-hr        | 245   0.397 | 230   0.373 | 220   0.356 | 220   0.356 |
| 50 % load  | g/kWh   lb/hp-hr        | 270   0.437 | 260   0.421 | 240   0.389 | 235   0.381 |
| 25 % load  | g/kWh   lb/hp-hr        | 400   0.648 | 400   0.648 | 350   0.567 | 350   0.567 |

1) Possibly power reduction depending on altitude and temperature. 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, thereof 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 % to 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.

### Standard specification

**Standard engine:** Flywheel housing SAE 4 (5 for n = 3000 min<sup>-1</sup> | rpm); flywheel with 6.5" connection.

**Cooling system:** Integrated cooling system, V-belt guard.

**Filter:** Dry air cleaner with mechanical restriction indicator, fuel filter.

**Engine electrics:** Alternator 14 V, 60 A; starter motor with 12 V, 2.2 kW.

**Governor:** Mechanical (Bosch).

Bestell-Nr. 0031 2042 /  
04 / 2003 / VP-V

The engine company.

