

2011. The Genset Engine.

12-50 kVA at 1500/1800 min⁻¹ | rpm



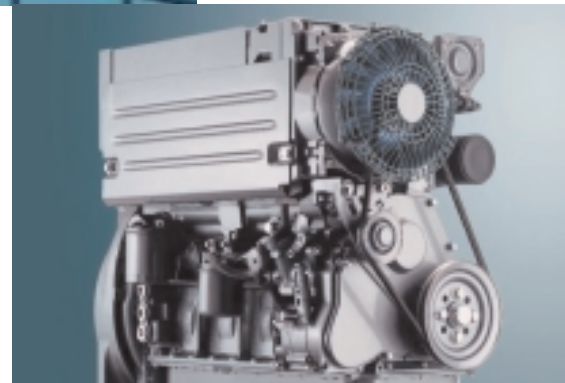
The engine with integrated oil cooling system.

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	BF4L 2011
Speed	min ⁻¹ rpm	1500	1500	1500	1500
Frequency	Hz	50	50	50	50
Engine/genset ratings¹⁾					
Continuous power, ICN (COP) ²⁾	kW hp	11,4 15.5	18,1 24.6	26,2 35.6	34,6 47.1
Prime power, ICN (PRP) ³⁾	kW hp	12,0 16.3	19,0 25.8	27,6 37.5	36,4 49.5
Limited-time running power, IFN (LTP) ⁴⁾	kW hp	12,6 17.1	20,0 27.2	29,0 39.4	38,2 52.0
Typical generator power output					
Typical generator power output (COP) ⁵⁾	kVA	11,8	19,0	28,5	38,0
Typical generator power output (PRP) ⁵⁾	kVA	12,5	20,0	30,0	40,0
Typical generator power output (LTP) ⁵⁾	kVA	13,1	20,9	31,5	42,0
Spec. fuel consumption PRP (LTP)⁶⁾					
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	BF4L 2011
Speed	min ⁻¹ rpm	1800	1800	1800	1800
Frequency	Hz	60	60	60	60
Engine/genset ratings¹⁾					
Continuous power, ICN (COP) ²⁾	kW hp	13,6 18.5	21,4 29.1	31,1 42.3	41,0 55.8
Prime power, ICN (PRP) ³⁾	kW hp	14,3 19.4	22,6 30.7	32,8 44.6	43,2 58.8
Limited-time running power, IFN (LTP) ⁴⁾	kW hp	15,1 20.5	23,8 32.4	34,5 46.9	45,5 61.9
Typical generator power output					
Typical generator power output (COP) ⁵⁾	kVA/kWe	14,3/11.3	22,5/18.0	33,8/27.0	45,0/36.0
Typical generator power output (PRP) ⁵⁾	kVA/kWe	14,9/11.9	23,8/19.0	35,6/28.5	47,4/38.0
Typical generator power output (LTP) ⁵⁾	kVA/kWe	15,7/12.5	25,0/20.0	37,4/30.0	49,9/40.0
Spec. fuel consumption PRP (LTP)⁶⁾					
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 ⁻¹ 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).

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The engine company.

