

# 909. The Genset Engine.

5-11 kVA at 1500 / 3000 min<sup>-1</sup> | rpm; 5-6 kWe at 1800 min<sup>-1</sup> | rpm



## The engine with integrated cooling system.

### These are the characteristics of the 909 Gen:

- 1 cylinder naturally aspirated engine.
- Displacement : 0.71 litre.
- Advanced injection and combustion system.
- Worldwide proven: Over 90,000 engines in service.
- Powerful and compact, low weight.

### Your benefits:

- ▶ Space-saving and cost-effective installation thanks to fuel tank/air cleaner unit and compact silencer with contact protection.
- ▶ Low maintenance requirements together with legendary durability.
- ▶ High quality combined with highly matured, simple configuration.
- ▶ Outstanding load acceptance ensures immediate power supply.
- ▶ Global service network with over 1,000 locations.



#### Dimensions and weight

##### D 909 L 01

Length:	mm   inch	393   15.5
Width:	mm   inch	405   15.9
Height:	mm   inch	658   25.9
Weight:	kg   lb	113,5   250

## ► Rating table: 909. The Genset Engine. 50/60 Hz

Engine type		D 909 L 01		
Speed	min <sup>-1</sup>   rpm	1500	1800	3000
Frequency	Hz	50	60	50
<b>Engine/genset ratings<sup>1)</sup></b>				
Continuous power, ICN (COP) <sup>2)</sup>	kW   hp	5.2   7.0	6.5   8.7	9.9   13.3
Prime power, ICN (PRP) <sup>3)</sup>	kW   hp	5.5   7.4	6.8   9.1	10.5   14.1
Limited-time running power, IFN (LTP) <sup>4)</sup>	kW   hp	5.8   7.8	7.2   9.7	11.0   14.8
<b>Typical generator power output</b>				
Typical generator power output (COP) <sup>5)</sup>	kVA/kWe	5.0	5.0	10.0
Typical generator power output (PRP) <sup>5)</sup>	kVA/kWe	5.5	5.5	11.0
Typical generator power output (LTP) <sup>5)</sup>	kVA/kWe	6.0	6.0	11.0
<b>Spec. fuel consumption (COP)<sup>6)</sup></b>				
100 % load	g/kWh   lb/hp-hr	232   0.376	224   0.363	259   0.420
75 % load	g/kWh   lb/hp-hr	233   0.377	229   0.371	258   0.418
50 % load	g/kWh   lb/hp-hr	251   0.407	242   0.392	293   0.475
25 % load	g/kWh   lb/hp-hr	326   0.528	315   0.510	395   0.640

- 1) Possibly power reduction depending on altitude and temperature. Every 5° C above standard reference temperature: 5 % power loss. Every 100 m additional erection altitude above standard reference altitude (100 m above sea level): 2.5 % power loss.
- 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 79 - 83 % and power factor cos (φ) = 0.8.
- 6) For fuel specification see operation manual. The indicated specific fuel consumption values only apply to the fully run-in engine with a tolerance of ± 5 %.

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 5, flywheel: heavy genset flywheel, SAE 6.5" for 1500/1800 min<sup>-1</sup> | rpm, light 6.5" flywheel for 3000 min<sup>-1</sup> | rpm.
- Cooling system:** Integrated cooling system with flywheel fan.
- Exhaust system:** Exhaust silencer, mounted, with contact protection.
- Filter:** Dry air cleaner integrated in fuel tank, exchangeable fuel and lube oil filters.
- Engine electrics:** Alternator 14 V, 23 A; starter motor with 12 V, 0.9 kW.
- Governor:** Mechanical centrifugal governor, high control quality.



The engine company.

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