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# P910P1/P1000E1



Image for illustration purposes only.

## Output Ratings

Voltage, Frequency	Prime*	Standby*
400V, 50 Hz	910.0 kVA / 728.0 kW	1000.0 kVA / 800.0 kW
	- / -	- / -

Ratings at 0.8 power factor.

Please refer to the output ratings technical data section for specific generator set outputs per voltage.

## Prime Rating

These ratings are applicable for supplying continuous electrical power (at variable load) in lieu of commercially purchased power. There is no limitation to the annual hours of operation and this model can supply 10% overload power for 1 hour in 12 hours.

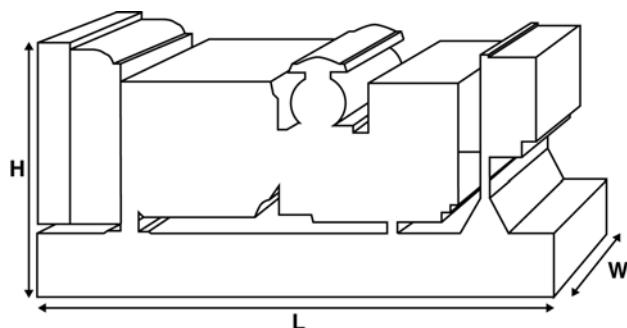
## Standby Rating

These ratings are applicable for supplying continuous electrical power (at variable load) in the event of a utility power failure. No overload is permitted on these ratings. The alternator on this model is peak continuous rated (as defined in ISO 8528-3).

## Standard Reference Conditions

Note: Standard reference conditions 25°C (77°F) Air Inlet Temp, 100m (328 ft) A.S.L. 30% relative humidity.

Fuel consumption data at full load with diesel fuel with specific gravity of 0.85 and conforming to BS2869: 1998, Class A2.



## Ratings and Performance Data

Engine Make & Model:	Perkins® 4008TAG1A	
Alternator manufactured for FG Wilson by:	Leroy Somer	
Alternator Model:	LL7124P	
Control Panel:	PowerWizard 1.1+	
Base Frame:	Heavy Duty Fabricated Steel	
Circuit Breaker Type:	3 Pole ACB - Option	
Frequency:	50 Hz	60 Hz
Engine Speed: RPM	1500	-
Fuel Tank Capacity: litres (US gal)		-
Fuel Consumption: l/hr (US gal/hr)		
(100% Load)	- Prime 194.4 (51.4)	-
	- Standby 217.2 (57.4)	-

## Available Options

FG Wilson offer a range of optional features to tailor our generating sets to meet your power needs. Options include:

- Upgrade to CE Certification
- A wide range of Sound Attenuated Enclosures
- A variety of generating set control and synchronising panels
- Additional alarms and shutdowns
- A selection of exhaust silencer noise levels

For further information on all of the standard and optional features accompanying this product please contact your local Dealer or visit: [www.FGWilson.com](http://www.FGWilson.com)

## Dimensions and Weights

Length (L) mm (in)	Width (W) mm (in)	Height (H) mm (in)	Dry kg (lb)	Wet kg (lb)
4976 (195.9)	2046 (80.6)	2284 (89.9)	7474 (16477)	7622 (16804)

Dry = With Lube Oil

Wet = With Lube Oil and Coolant

Ratings in accordance with ISO 8528, ISO 3046, IEC 60034, BS5000 and NEMA MG-1/22. Generating set pictured may include optional accessories.

Engine Technical Data		
No. of Cylinders / Alignment:		8 / In Line
Cycle:		4 Stroke
Bore / Stroke: mm (in)		160.0 (6.3)/190.0 (7.5)
Induction:		Turbocharged Air To Air Charge Cooled
Cooling Method:		Water
Governing Type:		Electronic
Governing Class:		ISO 8528 G2
Compression Ratio:		13.6:1
Displacement: l (cu. in)		30.6 (1864.9)
Moment of Inertia: kg m <sup>2</sup> (lb/in <sup>2</sup> )		15.62 (53376)
Engine Electrical System:		
- Voltage / Ground		24/Negative
- Battery Charger Amps		40
Weight: kg (lb)	- Dry	3250 (7165)
	- Wet	3428 (7557)

Performance		50 Hz	60 Hz
Engine Speed: rpm		1500	-
Gross Engine Power: kW (hp)			
- Prime	798.0 (1070.0)	-	
- Standby	876.0 (1175.0)	-	
BMEP: kPa (psi)			
- Prime	2089.0 (303.0)	-	
- Standby	2293.0 (332.6)	-	

Fuel System				
Fuel Filter Type:		Replaceable Element		
Recommended Fuel:		Class A2 Diesel		
Fuel Consumption: l/hr (US gal/hr)				
Prime	110% Load	100% Load	75% Load	50% Load
50 Hz	217.2 (57.4)	194.4 (51.4)	143.2 (37.8)	100.3 (26.5)
60 Hz	-	-	-	-
Standby	110% Load	100% Load	75% Load	50% Load
50 Hz		217.2 (57.4)	157.5 (41.6)	108.1 (28.6)
60 Hz	-	-	-	-

(Based on diesel fuel with a specific gravity of 0.84 and conforming to BS2869, Class A2)

Air Systems		50 Hz	60 Hz
Air Filter Type:		Replaceable Element	
Combustion Air Flow: m <sup>3</sup> /min (cfm)			
- Prime		69.4 (2451)	-
- Standby		74.0 (2613)	-
Max. Combustion Air Intake Restriction: kPa (in H <sub>2</sub> O)		3.7 (14.9)	-

Cooling System		50 Hz	60 Hz
Cooling System Capacity: l (US gal)		180.0 (47.6)	-
Water Pump Type:		Centrifugal	
Heat Rejected to Water & Lube Oil:			
kW (Btu/min)		- Prime 300.0 (17061)	-
		- Standby 313.0 (17800)	-
Heat Radiation to Room: Heat radiated from engine and alternator			
kW (Btu/min)		- Prime 113.2 (6438)	-
		- Standby 141.2 (8030)	-
Radiator Fan Load: kW (hp)		30.0 (40.2)	-
Radiator Cooling Airflow: m <sup>3</sup> /min (cfm)		1152.0 (40683)	-
External Restriction to Cooling Airflow: Pa (in H <sub>2</sub> O)		250 (1.0)	-

Designed to operate in ambient conditions up to 50°C (122°F). Contact your local FG Wilson Dealer for power ratings at specific site conditions.

Lubrication System	
Oil Filter Type:	Spin-On, Full Flow
Total Oil Capacity: l (US gal)	166.0 (43.9)
Oil Pan: l (US gal)	153.0 (40.4)
Oil Type:	API CG4 15W-40
Oil Cooling Method:	Water

Exhaust System		50 Hz	60 Hz
Maximum Allowable Back Pressure: kPa (in Hg)		9.3 (2.7)	-
Exhaust Gas Flow: m <sup>3</sup> /min (cfm)			
- Prime 183.0 (6463)		-	
- Standby 183.0 (6463)		-	-
Exhaust Gas Temperature: °C (°F)			
- Prime 422 (792)		-	
- Standby 438 (820)		-	-

Alternator Physical Data	
Manufactured for FG Wilson by:	Leroy Somer
Model:	LL7124P
No. of Bearings:	1
Insulation Class:	H
Winding Pitch Code:	2/3 - 6S
Wires:	6
Ingress Protection Rating:	IP23
Excitation System:	AREP
AVR Model:	R450M

Alternator Operating Data	
<b>Overspeed:</b> rpm	2250
<b>Voltage Regulation:</b> (Steady state)	+/- 0.5%
<b>Wave Form NEMA = TIF:</b>	50
<b>Wave Form IEC = THF:</b>	2.0%
<b>Total Harmonic content LL/LN:</b>	4.0%
<b>Radio Interference:</b>	Suppression is in line with European Standard EN61000-6
<b>Radiant Heat:</b> kW (Btu/min)	
- 50 Hz	42.1 (2855)
- 60 Hz	-

Reactances shown are applicable to prime ratings.

\*Based on 30% voltage dip at 0.6 power factor.

\*\*With optional permanent magnet generator or AREP excitation.

Output Ratings Technical Data 50 Hz				
Voltage	Prime:		Standby:	
	kVA	kW	kVA	kW
415/240V	910.0	728.0	1000.0	800.0
400/230V	910.0	728.0	1000.0	800.0
380/220V	910.0	728.0	1000.0	800.0

**Documentation**

A full set of operation and maintenance manuals and circuit wiring diagrams.

**Generating Set Standards**

The equipment meets the following standards: BS5000, ISO 8528, ISO 3046, IEC 60034, NEMA MG-1.22.

FG Wilson is a fully accredited ISO 9001 company.

**Warranty**

All prime equipment carries a one year manufacturer's warranty with unlimited hours or two year manufacturer's warranty limited to 6,000 running hours. Standby equipment, limited to 500 running hours per year, has a three year manufacturer's warranty.

**Dealer contact details:**

**FG Wilson manufactures product in the following locations:**

Northern Ireland • Brazil • China • India • USA

With headquarters in Northern Ireland, FG Wilson operates through a Global Dealer Network.

To contact your local Sales Office please visit the FG Wilson website at [www.FGWilson.com](http://www.FGWilson.com).

FG Wilson is a trading name of Caterpillar (NI) Limited.

In line with our policy of continuous product development, we reserve the right to change specification without notice.

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