



P1000P1/P1100E1



Output Ratings

Voltage, Frequency	Prime*	Standby*
400V, 50 Hz	1000.0 kVA / 800.0 kW	1100.0 kVA / 880.0 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

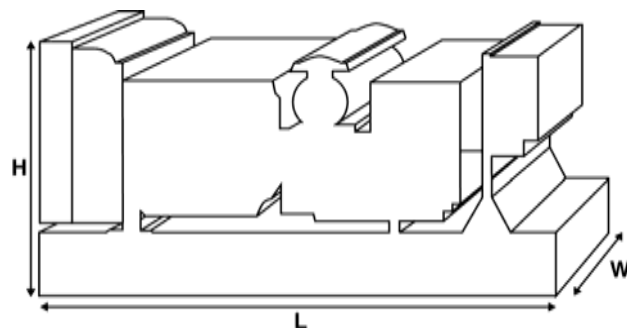
These ratings are applicable for supplying continuous electrical power (at variable load) in lieu of commercially purchased power. There is no limitation to the annual hours of operation and this model can supply 10% overload power for 1 hour in 12 hours.

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® 4008TAG2A	
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	215.0 (56.8) -
	- Standby	241.0 (63.7) -

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

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)	2158 (85.0)	7285 (16061)	7408 (16332)

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 ² (lb/in ²)	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	882.0 (1183.0)	-
- Standby	969.0 (1299.0)	-
BMEP: kPa (psi)		
- Prime	2309.0 (334.9)	-
- Standby	2537.0 (367.9)	-

Fuel System					
Fuel Filter Type:	Replaceable Element				
Recommended Fuel:	Class A2 Diesel				
Fuel Consumption: l/hr (US gal/hr)					
	110%	100%	75%	50%	
Prime	Load	Load	Load	Load	Load
50 Hz	241.0 (63.7)	215.0 (56.8)	157.1 (41.5)	109.4 (28.9)	
	110%	100%	75%	50%	
Standby	Load	Load	Load	Load	Load
50 Hz	241.0 (63.7)	173.4 (45.8)	118.1 (31.2)		
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 ³ /min (cfm)		
- Prime	75.0 (2649)	-
- Standby	77.0 (2719)	-
Max. Combustion Air Intake Restriction: kPa (in H ₂ O)	3.7 (14.9)	-

Cooling System	50 Hz	60 Hz
Cooling System Capacity: l (US gal)	123.0 (32.5)	-
Water Pump Type: Centrifugal		
Heat Rejected to Water & Lube Oil:		
kW (Btu/min)	- Prime 316.0 (17971)	-
	- Standby 331.0 (18824)	-
Heat Radiation to Room: Heat radiated from engine and alternator		
kW (Btu/min)	- Prime 124.8 (7097)	-
	- Standby 151.2 (8599)	-
Radiator Fan Load: kW (hp)	23.0 (30.8)	-
Radiator Cooling Airflow: m ³ /min (cfm)	870.0 (30724)	-
External Restriction to Cooling Airflow: Pa (in H ₂ 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)	8.0 (2.4)	-
Exhaust Gas Flow: m ³ /min (cfm)		
- Prime	200.0 (7063)	-
- Standby	200.0 (7063)	-
Exhaust Gas Temperature: °C(°F)		
- Prime	438 (820)	-
- Standby	465 (869)	-

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	
Overspeed: rpm	2250
Voltage Regulation: (Steady state)	+/- 0.5
Wave Form NEMA = TIF:	50
Wave Form IEC = THF:	2.0%
Total Harmonic content LL/LN:	3.5%
Radio Interference:	Suppression is in line with European Standard EN61000-6
Radiant Heat: kW (Btu/min)	
- 50 Hz	51.2 (2912)
- 60 Hz	-

Alternator Performance Data:	50 Hz			60 Hz	
	415/240V	400/230V	380/220V		
Data Item					
Motor Starting Capability* kVA	2465	2297	2081		
Short Circuit Capacity** %	300	300	300		
Reactances: Per Unit					
Xd	3.520	3.790	4.200		
X'd	0.250	0.270	0.300		
X''d	0.141	0.151	0.168		

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	1000.0	800.0	1100.0	880.0
400/230V	1000.0	800.0	1100.0	880.0
380/220V	1000.0	800.0	1100.0	880.0

Output Ratings Technical Data 60 Hz				
Voltage	Prime:		Standby:	
	kVA	kW	kVA	kW

General Information

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

The equipment meets the following standards
 FG Wilson is a fully accredited ISO 9001 certified

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.