

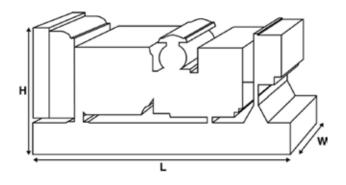
Standard Alternator

Output Rating	js		
Voltage, Frequency		Prime	Standby
	kVA kW		
480/277V, 60 Hz	kVA kW	1000	1100 880



Ratings at 0.8 power factor.

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



Dimensions and Weights				
Length	mm	4788 (188.5)		
Width	mm	2046 (80.6)		
Height	mm	2419 (95.2)		
Weight (Dry)	kg	7137 (15734)		
Weight (Wet)	kg	7250 (15983)		

Ratings in accordance with ISO 8528, ISO 3046, IEC 60034,

BS5000 and NEMA MG-1.22.

Generator set pictured may include optional accessories.

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.

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

- Upgrade to CE Certification
- A wide range of Sound Attenuated Enclosures
- A variety of generator 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



Ratings and Perfor	mance Data				
Engine Make		Perkins			
Engine Model:		4008TAG2			
Alternator Make		Leroy Somer	Leroy Somer		
Alternator Model:		LL7224P	LL7224P		
Control Panel:		DSE7410			
Base Frame:		Heavy Duty Fabricated !	Steel		
Circuit Breaker Type:		Options Available			
Frequency:		50 HZ	60 HZ		
Engine Speed: RPM	rpm		1800		
Fuel Tank Capacity:	litres (US gal)	N/A (N/A)			
Fuel Consumption Prime	litres (US gal)/hr		221.2 (58.4)		
Fuel Consumption Standby	y litres (US gal)/hr		244.4 (64.6)		
Engine Technical D No. of Cylinders	ata	8			
		IN LINE			
Alignment		4 STROKE			
Cycle Bore	mm (in)	160 (6.3)			
	mm (in)	190 (7.5)			
Induction	111111 (111)	TURBOCHARGED			
Cooling Method		WATER			
Governing Type		ELECTRONIC			
Governing Class		ISO 8528			
Compression Ratio		13.6:1			
	L (cu. in)	30.6 (1864.9)			
	kg m² (lb/in²)	15.62 (53376)			
Voltage		24			
Ground		Negative			
Battery Charger Amps		40			
	kg (lb)	3250 (7165)			
Engine Weight Wet	kg (lb)	3428 (7557)			
Engine Performan	ce Data	50 Hz	60 Hz		
Engine Speed	rpm		1800		
Gross Engine Power Prime	kW (hp)		898 (1204)		
Gross Engine Power Stand			1004 (1346)		
BMEP Prime	kPa (psi)		1959 (284.1)		
BMEP Standby	kPa (psi)		2190 (317.7)		



375 (21326) 126 (7165)

154 (6300)

1461 (51595)

56 (75.1)

196 (0.8)

Fuel System						
Fuel Filter Type:				Replaceable Eler	ment	
Recommended Fuel:				Class A2 Diesel		
Fuel Consumption at			110 % Load	100 % Load	75 % Load	50 % Load
50 Hz Prime:	I/hr (US gal/h	ır)				
50 Hz Standby	l/hr (US gal/h	ır)	-			
60 Hz Prime	I/hr (US gal/h	ır)	244.4 (64.6)	221.2 (58.4)	165.8 (43.8)	114.1 (30.1)
60 Hz Standby	l/hr (US gal/h	ır)	-	244.4 (64.6)	182 (48.1)	124.2 (32.8)
Air System			50	Hz	60 Hz	
Air System Air Filter Type:			50	Hz	60 Hz Replaceable Elemen	nt
	Prime	m³/min (cfm)	50	Hz		nt
Air Filter Type:		m³/min (cfm) m³/min (cfm)	50	Hz	Replaceable Elemer	nt
Air Filter Type: Combustion Air Flow P	itandby		50	Hz	Replaceable Elemer 72 (2543)	nt
Air Filter Type: Combustion Air Flow P Combustion Air Flow S Max. Combustion Air Ir	itandby ntake Restriction	m³/min (cfm)	50		Replaceable Elemer 72 (2543) 77 (2719)	nt
Air Filter Type: Combustion Air Flow P Combustion Air Flow S	itandby ntake Restriction	m³/min (cfm)			Replaceable Elemen 72 (2543) 77 (2719) 3.7 (14.9)	
Air Filter Type: Combustion Air Flow P Combustion Air Flow S Max. Combustion Air Ir Cooling System	itandby ntake Restriction	m³/min (cfm) kPa		Hz	Replaceable Elemer 72 (2543) 77 (2719) 3.7 (14.9) 60 Hz	

Heat Rejected to Water & Lube Oil: Standby

Heat Radiation to Room*: Prime

Radiator Fan Load:

Radiator Cooling Airflow:

Heat Radiation to Room*: Standby

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.

kW (Btu/min)

kW (Btu/min)

kW (Btu/min)

m³/min (cfm)

Pa (in H2O)

kW (hp)

Lu	bri	icati	on	Sy	/stem

Oil Filter Type:		Spin-On, Full Flow
Total Oil Capacity:	I (US gal)	166 (43.9)
Oil Pan Capacity:	I (US gal)	153 (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)		6.7 (2)
Exhaust Gas Flow: Prime	m³/min (cfm)		207 (7310)
Exhaust Gas Flow: Standby	m³/min (cfm)		207 (7310)
Exhaust Gas Temperature: Prime	°C (°F)		490 (914)
Exhaust Gas Temperature: Standby	°C (°F)		520 (968)

External Restriction to Cooling Airflow:
*: Heat radiated from engine and alternator



44 (2502)

Alternator Physical Data		
No. of Bearings:		1
Insulation Class:		Н
Winding Pitch:		2/3
Winding Code		6S
Wires:		6
Ingress Protection Rating:		IP23
Excitation System:		AREP
AVR Model:		R450M
* dependant on voltage code selected		
Alternator Operating Data	 3	
Overspeed: rpm		2250
Voltage Regulation: (Steady state)	%	+/- 0.5
Wave Form NEMA = TIF:		50
Wave Form IEC = THF:	%	2
Total Harmonic content LL/LN:	%	4
Radio Interference:		EN61000-6

Alternator Performance Data 50 Hz:

kW (Btu/min)

kW (Btu/min)

Voltage Code

Radiant Heat: 50 Hz

Radiant Heat: 60 Hz

Motor Starting Capability*	kVA				
Short Circuit Capacity**	%	300	300	300	300
Reactances	Xd				
	X'd				
	X"d				

	71.0					
Alternator Performance Data 60 Hz						
		480/277 V	380/220 V			440/254 V
Voltage Code						
Motor Starting Capability*	kVA	3121	2017			2657
Short Circuit Capacity**	%	300	300	300	300	300
Reactances	Xd	2.839	4.519			3.379
	X'd	0.135	0.215			0.16
	X"d	0.108	0.172			0.128

Reactances shown are applicable to prime ratings.

^{*}Based on 30% voltage dip at 0.6 power factor.

^{**} With optional independant excitation system (PMG / AUX winding)



Output Ratings	50 Hz				
		Prime		Standby	
Voltage Code	kVA	kW	kVA	kW	
415/240V					
400/230V					
380/220V					
230/115V					
220/127V					
220/110V					
200/115V					
240V					
230V					
220V					
Output Ratings	: 60 Hz				
- Output Hatings		Prime	9	Standby	
Voltage Code	kVA	kW	kVA	kW	
480/277V	1000	800	1100	880	
440/254V	1000	800	1100	880	
416/240V					
400/230V					
380/220V	997.4	797.9	1100	880	
240/139V					
240/120V					
230/115V					
220/127V					
220/110V					
208/120V					
240/120					
220/110					





	Dealer Contact Details				
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Documentation

Operation and maintenance manual including circuit wiring diagrams.

Generator Set Standards

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

Warranty

The warranty for this product in prime applications is 12 months from date of start-up, unlimited hours (8760 hours) or 24 months from date of start-up, limited to 6000 hours. For standby applications the warranty period is 36 months from date of start-up, limited to 500 hours per year.

FG Wilson manufactures product in the following locations:

Northern Ireland • Brazil • China • India

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.

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