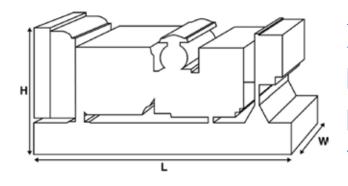


Output Ratings				
Voltage, Frequency		Prime	Standby	
400/230 V, 50 Hz	kVA kW	2250 1800	2500 2000	
	kVA kW			



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	6038 (237.7)		
Width	mm	2196 (86.5)		
Height	mm	2900 (114.2)		
Weight (Dry)	kg	12980 (28616)		
Weight (Wet)	kg	13380 (29498)		

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



Engine Make	formance Data	Perkins				
		4016-61TRG3				
Engine Model:		Leroy Somer				
Alternator Make		LL9324P				
Alternator Model:		DSE7410				
Control Panel:			c. 1			
Base Frame:		Heavy Duty Fabricated S	oteel			
Circuit Breaker Type:		Options Available	60.117			
Frequency:		50 HZ	60 HZ			
Engine Speed: RPM	rpm	1500				
Fuel Tank Capacity:	litres (US gal)	N/A (N/A)				
Fuel Consumption Prin	ne litres (US gal)/hr	470.6 (124.3)				
Fuel Consumption Star	ndby litres (US gal)/hr	528.4 (139.6)				
	15.					
Engine Technica	I Data	17				
No. of Cylinders		16				
Alignment		60deg Vee				
Cycle		4 STROKE				
Bore	mm (in)	160 (6.3)				
Stroke	mm (in)	190 (7.5)				
Induction		TURBOCHARGED AIR TO) WATER CHARGE COOLED			
Cooling Method		WATER				
Governing Type		ELECTRONIC				
Governing Class		ISO 8528				
Compression Ratio		13.0:1				
Displacement	L (cu. in)	61.1 (3730)				
Moment of Inertia:	kg m² (lb/in²)	20.72 (70803)				
Voltage		24				
Ground		Negative				
Battery Charger Amps		55				
Engine Weight Dry	kg (lb)	5570 (12280)				
Engine Weight Wet	kg (lb)	5847 (12890)				
Engine Perform	ance Data	50 Hz	60 Hz			
Engine Speed	rpm	1500				
Gross Engine Power Pr	ime kW (hp)	1975 (2648.5)				
Gross Engine Power St	andby kW (hp)	2183 (2927.4)				
BMEP Prime	kPa (psi)	2584.8 (374.9)				
BMEP Standby	kPa (psi)	2857.2 (414.4)				



Fuel System					
Fuel Filter Type:			Replaceable Elen	nent	
Recommended Fuel:			Class A2 Diesel		
Fuel Consumption at		110 % Load	100 % Load	75 % Load	50 % Load
50 Hz Prime:	I/hr (US gal/hr)	528.4 (139.6)	470.6 (124.3)	350.8 (92.7)	244.5 (64.6)
50 Hz Standby	l/hr (US gal/hr)	-	528.4 (139.6)	389.2 (102.8)	266.9 (70.5)
60 Hz Prime	I/hr (US gal/hr)				
60 Hz Standby	l/hr (US gal/hr)	=			

(Based on diesel fuel with a specific gravity of 0.86 and conforming to BS2869 classA2,EN590 $\,$

Air System		50 Hz		60 Hz	
Air Filter Type:		Replaceable Element			
Combustion Air Flow Prime	m³/min (cfm)	160 (5650)			
Combustion Air Flow Standby	m³/min (cfm)	175 (6180)			
Max. Combustion Air Intake Restriction	kPa	3.7 (14.9)			

Cooling System		50 Hz	60 Hz	
Cooling System Capacity	l (US gal)	400 (105.7)	•	
Water Pump Type:			Centrifugal	
Heat Rejected to Water & Lube Oil: Prime	kW (Btu/min)	757 (43050)		
Heat Rejected to Water & Lube Oil: Standby	kW (Btu/min)	830 (47201)		
Heat Radiation to Room*: Prime	kW (Btu/min)	204.2 (11613)		
Heat Radiation to Room*: Standby	kW (Btu/min)	236.8 (13467)		
Radiator Fan Load:	kW (hp)	77 (103.3)		
Radiator Cooling Airflow:	m³/min (cfm)	2184 (77127)		
External Restriction to Cooling Airflow:	Pa (in H2O)	250 (1)		

^{*:} Heat radiated from engine and alternator

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)	238 (62.9)	
Oil Pan Capacity:	l (US gal)	213 (56.3)	
Oil Type:		API CG 15W-40 CH4	
Oil Cooling Method:		WATER	

Exhaust System		50 Hz	60 Hz
Maximum Allowable Back Pressure:	kPa (in Hg)	4 (1.2)	
Exhaust Gas Flow: Prime	m³/min (cfm)	477 (16845)	
Exhaust Gas Flow: Standby	m³/min (cfm)	525 (18540)	
Exhaust Gas Temperature: Prime	°C (°F)	475 (887)	
Exhaust Gas Temperature: Standby	°C (°F)	560 (1040)	

Alternator Physical Data



No. of Bearings:			
Insulation Class:		Н	
Winding Pitch:		2/3	
Winding Code		6S	
Wires:		6	
Ingress Protection Rating:		IP23	
Excitation System:		AREP	
AVR Model:		D510	
dependant on voltage code selected			
dependant on voltage code selected Alternator Operating Data	a		
<u> </u>	a	2250	
Alternator Operating Data	a %	2250 +/- 0.5	
Alternator Operating Data Overspeed: rpm			
Alternator Operating Data Overspeed: rpm Voltage Regulation: (Steady state)		+/- 0.5	
Alternator Operating Data Overspeed: rpm Voltage Regulation: (Steady state) Wave Form NEMA = TIF:	%	+/- 0.5 50	
Alternator Operating Data Overspeed: rpm Voltage Regulation: (Steady state) Wave Form NEMA = TIF: Wave Form IEC = THF:	%	+/- 0.5 50 2	
Alternator Operating Data Overspeed: rpm Voltage Regulation: (Steady state) Wave Form NEMA = TIF: Wave Form IEC = THF: Total Harmonic content LL/LN:	%	+/- 0.5 50 2 3.5	

Aiternator	Performance	Data 50 mz:

415/240 V 400/230 V 380/220 V

Voltage Code

Motor Starting Capability*	kVA	8870	8266	7491	
Short Circuit Capacity**	%	300	300	300	300
Reactances	Xd	3.057	3.291	3.646	
	X'd	0.235	0.253	0.28	
	X"d	0.127	0.127	0.14	

Alternator Performance Data 60 Hz

Voltage Code

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

Reactances shown are applicable to prime ratings.

^{*}Based on 30% voltage dip at 0.4 power factor.

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



Output Ratings 5	50 Hz				
	Prime		Standby		
Voltage Code	kVA	kW	kVA	kW	
415/240V	2250	1800	2500	2000	
400/230V	2250	1800	2500	2000	
380/220V	2250	1800	2497	1997.6	
230/115V					
220/127V					
220/110V					
200/115V					
240V					
230V					
220V					
Output Ratings 6	50 H-2				
Output Natings (50 112	Prime		Standby	
Voltage Code	kVA	kW	kVA	kW	
480/277V					
440/254V					
416/240V					
400/230V					
380/220V					
240/139V					
240/120V					
230/115V					
220/127V					
220/110V					
208/120V					
240/120					





Dealer Contact Details					

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.