

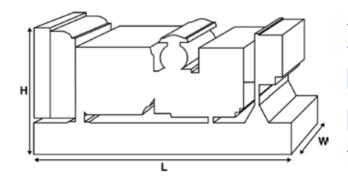
Optional Alternator

Output Ratings				
Voltage, Frequency		Prime	Standby	
400/230 V, 50 Hz	kVA kW	910 728	1000 800	
	kVA			
	kW			



Ratings at 0.8 power factor.

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



Dimension	ns and Weights	
Length	mm	4967 (195.6)
Width	mm	2162 (85.1)
Height	mm	2227 (87.7)
Weight (Dry)	kg	6735 (14848)
Weight (Wet)	kg	6820 (15036)

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				
Engine Make		4008TAG1A				
Engine Model:						
Alternator Make			Leroy Somer			
Alternator Model:		LL7224N				
Control Panel:			DSE7410			
Base Frame:		Heavy Duty Fabricated	Steel			
Circuit Breaker Type:		Options Available	20.117			
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	192.7 (50.9)				
Fuel Consumption Sta	ndby litres (US gal)/hr	214.9 (56.8)				
 Engino Tochnico	I Data					
Engine Technica No. of Cylinders		8				
Alignment		IN LINE				
Cycle		4 STROKE				
Bore mm (in)		160 (6.3)				
Stroke	mm (in)	190 (7.5)				
Induction	11111 (111)		O AIR CHARGE COOLED			
Cooling Method		WATER				
Governing Type		ELECTRONIC				
Governing Class		ISO 8528				
Compression Ratio		13.6:1				
Displacement	L (cu. in)	30.6 (1864.9)				
Moment of Inertia:	kg m² (lb/in²)	15.62 (53376)				
Voltage	ng m (ib/m)	24				
Ground		Negative				
Battery Charger Amps		40				
Engine Weight Dry	kg (lb)	3250 (7165)				
Engine Weight Wet	kg (lb)	3428 (7557)				
Engine Weight Wet	ng (ID)	3.20 (.33/)				
Engine Perform	ance Data	50 Hz	60 Hz			
Engine Speed	rpm	1500				
Gross Engine Power Pr	ime kW (hp)	798 (1070)				
Gross Engine Power St	andby kW (hp)	876 (1175)				
BMEP Prime	kPa (psi)	2089 (303)				
BMEP Standby	kPa (psi)	2293 (332.6)				



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/hr)	214.9 (56.8)	192.7 (50.9)	142.4 (37.6)	100 (26.4)
50 Hz Standby	I/hr (US gal/hr)	-	214.9 (56.8)	156.5 (41.3)	107.8 (28.5)
60 Hz Prime	I/hr (US gal/hr)				
60 Hz Standby	I/hr (US gal/hr)	=			

(Based on diesel fuel with a specific gravity of 0.85 and conforming to BS2869, class A2 $\,$

Air System		50 Hz	60 Hz	
Air Filter Type:		Replaceable Element		
Combustion Air Flow Prime	m³/min (cfm)	69.4 (2451)		
Combustion Air Flow Standby	m³/min (cfm)	74 (2613)		
Max. Combustion Air Intake Restriction	kPa	3.7 (14.9)		

Cooling System		50 Hz	60 Hz	
Cooling System Capacity	l (US gal)	123 (32.5)		
Water Pump Type:			Centrifugal	
Heat Rejected to Water & Lube Oil: Prime	kW (Btu/min)	300 (17061)		
Heat Rejected to Water & Lube Oil: Standby	kW (Btu/min)	313 (17800)		
Heat Radiation to Room*: Prime	kW (Btu/min)	108.6 (6176)		
Heat Radiation to Room*: Standby	kW (Btu/min)	133.5 (7592)		
Radiator Fan Load:	kW (hp)	27 (36.2)		
Radiator Cooling Airflow:	m³/min (cfm)	870 (30724)		
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 Sys	stem	
Oil Filter Type:		Spin-On, Full Flow
Total Oil Capacity:	I (US gal)	166 (43.9)
Oil Pan Capacity:	l (US gal)	153 (40.4)
Oil Typo:		API CG4 15W-40

Oil Type: API CG4 15W-4
Oil Cooling Method: WATER

Exhaust System		50 Hz	60 Hz
Maximum Allowable Back Pressure:	kPa (in Hg)	9.3 (2.7)	
Exhaust Gas Flow: Prime	m³/min (cfm)	183 (6463)	
Exhaust Gas Flow: Standby	m³/min (cfm)	183 (6463)	
Exhaust Gas Temperature: Prime	°C (°F)	422 (792)	
Exhaust Gas Temperature: Standby	°C (°F)	440 (824)	



Alternator Physical I	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 Operatin	g Data					
Overspeed: rpm					2250	
Voltage Regulation: (Steady s	state)	%			+/- 0.5	
Wave Form NEMA = TIF:				50		
Wave Form IEC = THF:		%		2		
Total Harmonic content LL/L	N:	%		4		
Radio Interference:				EN61000-6		
Radiant Heat: 50 Hz		kW (Btu/min)			42.5 (2417)	
Radiant Heat: 60 Hz		kW (Btu/min)				
Alternator Performa	nce D	ata 50 Hz·				
Atternator renorma	ince D	ata 50 112.	415/240 V	400/230 V	380/220 V	
Voltage Code			113/210	100, 230 V	300, 220 V	
Motor Starting Capability*	kVA		2832	2646	2406	
Short Circuit Capacity**	%		300	300	300	300
Reactances	Xd		2.758	2.969	3.29	
	X'd		0.132	0.142	0.157	
	X"d		0.114	0.114	0.126	

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 0.6 power factor.

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



Output Ratings	50 Hz			
		Prime		Standby
Voltage Code	kVA	kW	kVA	kW
415/240V	910	728	1000	800
400/230V	910	728	1000	800
380/220V	910	728	1000	800
230/115V				
220/127V				
220/110V				
200/115V				
240V				
230V				
220V				
Output Patings	60 U=			
Output Ratings	00 п2	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				
220/110				





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.