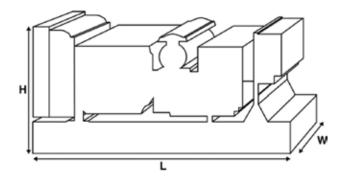


Output Rating	S		
Voltage, Frequency		Prime	Standby
400/2201/ 5011-	kVA	1700	1875
400/230 V, 50 Hz	kW	1360	1500
	kVA		
	kW		



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	5259 (207)
Width	mm	2192 (86.3)
Height	mm	2453 (96.6)
Weight (Dry)	kg	10997 (24244)
Weight (Wet)	kg	11207 (24707)

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 Model:		4012-46TAG3A				
Alternator Make		Leroy Somer				
Alternator Model:		LL9324F				
		DSE7410				
Control Panel:		Heavy Duty Fabricated	Staal			
Base Frame:		Options Available	Sieei			
Circuit Breaker Type:		50 HZ	60 HZ			
Frequency:		1500	00112			
Engine Speed: RPM	rpm					
Fuel Tank Capacity:	litres (US gal)	N/A (N/A)				
Fuel Consumption Prin		349.7 (92.4)				
Fuel Consumption Star	ndby litres (US gal)/hr	390.2 (103.1)				
Engine Technica	 I Data					
No. of Cylinders		12				
Alignment		VEE				
Cycle		4 STROKE				
Bore mm (in)		160 (6.3)				
Stroke	mm (in)		190 (7.5)			
Induction			O AIR CHARGE COOLED			
Cooling Method		WATER				
Governing Type		ELECTRONIC				
Governing Class		ISO 8528				
Compression Ratio		13.0:1				
Displacement	L (cu. in)	45.8 (2794.9)				
Moment of Inertia:	kg m² (lb/in²)	19.3 (65951)				
Voltage	g (,	24				
Ground		Negative				
Battery Charger Amps		40				
Engine Weight Dry	kg (lb)	4400 (9700)				
Engine Weight Wet	kg (lb)	4604 (10150)				
J g	J (**)					
Engine Perform	ance Data	50 Hz	60 Hz			
Engine Speed	rpm	1500				
Gross Engine Power Pr	ime kW (hp)	1500 (2012)				
Gross Engine Power St	andby kW (hp)	1643 (2203)				
BMEP Prime	kPa (psi)	2618 (379.7)				
BMEP Standby	kPa (psi)	2868 (415.9)				



Fuel System					
Fuel Filter Type:			Replaceable Elem	ent	
Recommended Fuel:			Class A2 Diesel		
Fuel Consumption at		110 % Load	100 % Load	75 % Load	50 % Load
50 Hz Prime:	l/hr (US gal/hr)	390.2 (103.1)	349.7 (92.4)	259.9 (68.7)	182.5 (48.2)
50 Hz Standby	l/hr (US gal/hr)	-	390.2 (103.1)	286.4 (75.7)	197.5 (52.2)
60 Hz Prime	l/hr (US gal/hr)				
60 Hz Standby	l/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)	125 (4414)	
Combustion Air Flow Standby	m³/min (cfm)	135 (4767)	
Max. Combustion Air Intake Restriction	kPa	4 (16.1)	
Cooling System		50 Hz	60 Hz
Cooling System Capacity	l (US gal)	221 (58.4)	

			331.2	
Cooling System Capacity	l (US gal)	221 (58.4)	·	
Water Pump Type:			Centrifugal	
Heat Rejected to Water & Lube Oil: Prime	kW (Btu/min)	510 (29003)		
Heat Rejected to Water & Lube Oil: Standby	kW (Btu/min)	625 (35543)		
Heat Radiation to Room*: Prime	kW (Btu/min)	174.1 (9901)		
Heat Radiation to Room*: Standby	kW (Btu/min)	193.7 (11016)		
Radiator Fan Load:	kW (hp)	72 (96.6)		
Radiator Cooling Airflow:	m³/min (cfm)	1656 (58481)		
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.

Lu	brio	atic	n S	yste	m

Oil Filter Type:		Spin-On, Full Flow
Total Oil Capacity:	I (US gal)	177 (46.8)
Oil Pan Capacity:	I (US gal)	159 (42)
Oil Type:		API CH4 15W-40
Oil Cooling Method:		WATER

Exhaust System		50 Hz	60 Hz
Maximum Allowable Back Pressure:	kPa (in Hg)	5 (1.5)	
Exhaust Gas Flow: Prime	m³/min (cfm)	350 (12360)	
Exhaust Gas Flow: Standby	m³/min (cfm)	350 (12360)	
Exhaust Gas Temperature: Prime	°C (°F)	480 (896)	
Exhaust Gas Temperature: Standby	°C (°F)	480 (896)	



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:					R449	
dependant on voltage code selected						
Alternator Operating	g Data					
Overspeed: rpm					2250	
Voltage Regulation: (Steady state) %		%		+/- 0.5		
Wave Form NEMA = TIF:			50			
Wave Form IEC = THF: %		%	2			
Total Harmonic content LL/LN	N:	%	3.5			
Radio Interference:			EN61000-6			
Radiant Heat: 50 Hz		kW (Btu/min)	70.7 (4021)			
Radiant Heat: 60 Hz		kW (Btu/min)				
Alternator Performa	nce Da	ata 50 Hz:				
			415/240 V	400/230 V	380/220 V	
Voltage Code						
Motor Starting Capability*	kVA		5086	4740	4295	
Short Circuit Capacity**	%		300	300	300	300
Reactances	Xd		3.119	3.358	3.72	
	X'd		0.247	0.266	0.294	
	X″d		0.137	0.137	0.152	

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	50 Hz				
		Prime		Standby	
Voltage Code	kVA	kW	kVA	kW	
415/240V	1700	1360	1875	1500	
400/230V	1700	1360	1875	1500	
380/220V	1700	1360	1875	1500	
230/115V					
220/127V					
220/110V					
200/115V					
240V					
230V					
220V					
Output Ratings	60 Hz				
Output natings	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					
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.