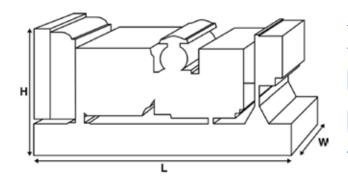


Output Ratings					
Voltage, Frequency		Prime	Standby		
400/2201/ 5011	kVA	2000	2250		
400/230 V, 50 Hz	kW	1600	1800		
	kVA				
	kW				



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	5839 (229.9)			
Width	mm	2196 (86.5)			
Height	mm	2605 (102.6)			
Weight (Dry)	kg	12215 (26929)			
Weight (Wet)	kg	12528 (27619)			

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 Perf		Perkins	
Engine Model:		4016-61TRG2	
Alternator Make		Leroy Somer	
Alternator Model:		LL9324H	
Control Panel:		DSE7410	
Base Frame:		Heavy Duty Fabricated	Steel
Circuit Breaker Type:		Options Available	
Frequency:		50 HZ	60 HZ
Engine Speed: RPM	rpm	1500	
Fuel Tank Capacity:	litres (US gal)	N/A (N/A)	
Fuel Consumption Prin		418.1 (110.5)	
Fuel Consumption Star		470.8 (124.4)	
Engine Technica	l Data		
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	O 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)	
			40.11
Engine Perform	ance Data	50 Hz	60 Hz
Engine Speed	rpm	1500	
Gross Engine Power Pr		1774 (2379)	
Gross Engine Power St	andby kW (hp)	1985 (2662)	
BMEP Prime	kPa (psi)	2322 (336.8)	
BMEP Standby	kPa (psi)	2598 (376.8)	



Fuel System					
Fuel Filter Type:			Replaceable Eleme	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)	470.8 (124.4)	418.1 (110.5)	317.7 (83.9)	223.5 (59)
50 Hz Standby	l/hr (US gal/hr)	-	470.8 (124.4)	354.6 (93.7)	246.4 (65.1)
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 0.86 and conforming to BS2869 classA2,EN590 $\,$

Air System		50 Hz		60 Hz	
Air Filter Type:		,	Replace	able Element	
Combustion Air Flow Prime	m³/min (cfm)	158 (5580)			
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)	315 (83.2)		
Water Pump Type:			Centrifugal	
Heat Rejected to Water & Lube Oil: Prime	kW (Btu/min)	670 (38102)		
Heat Rejected to Water & Lube Oil: Standby	kW (Btu/min)	750 (42652)		
Heat Radiation to Room*: Prime	kW (Btu/min)	207.1 (11778)		
Heat Radiation to Room*: Standby	kW (Btu/min)	225.8 (12841)		
Radiator Fan Load:	kW (hp)	78 (104.6)		
Radiator Cooling Airflow:	m³/min (cfm)	2081.4 (73504)		
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:	I (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			

	50 Hz	60 Hz
kPa (in Hg)	4 (1.2)	
m³/min (cfm)	475 (16774)	
m³/min (cfm)	475 (16774)	
°C (°F)	457 (855)	
°C (°F)	489 (912)	
	m³/min (cfm) m³/min (cfm) °C (°F)	kPa (in Hg) 4 (1.2) m³/min (cfm) 475 (16774) m³/min (cfm) 475 (16774) °C (°F) 457 (855)

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:				D510	
dependant on voltage code selected					
Alternator Operating Data	a				
Overspeed: rpm				2250	
Voltage Regulation: (Steady state)	%			+/- 0.5	
Wave Form NEMA = TIF:				50	
Wave Form IEC = THF:	%			2	
Total Harmonic content LL/LN:	%			3.5	
Radio Interference:				EN61000-6	
Radiant Heat: 50 Hz	kW (Btu/min)			86.8 (4936)	
Radiant Heat: 60 Hz	kW (Btu/min)				
Alternator Performance D	ata 50 Hz:				
		415/240 V	400/230 V	380/220 V	
Voltage Code					

|--|

Alternator Performance Data 60 Hz

kVA

%

Xd

Χ'd

Voltage Code

Reactances

Motor Starting Capability*

Short Circuit Capacity**

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

6816

300

3.17

0.244

0.138

6351

300

3.413

0.263

0.138

5754

300

3.781

0.291

0.152

300

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	2000	1600	2250	1800	
400/230V	2000	1600	2250	1800	
380/220V	2000	1600	2250	1800	
230/115V					
220/127V					
220/110V					
200/115V					
240V					
230V					
220V					
Output Ratings	60 Hz				
Output natings	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.