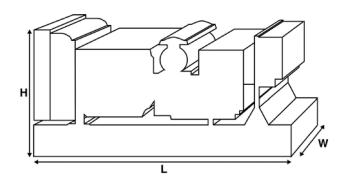


Output Ratings					
Voltage, Frequency		Prime	Standby		
400V, 50 Hz	kVA	1825	2000		
	kW	1460	1600		
400\/ 60 =	kVA				
480V, 60 Hz	kW				

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	5799 (228.3)		
Width	mm	2298 (90.5)		
Height	mm	3068 (120.8)		
Weight (Dry)	kg	15135 (33367)		
Weight (Wet)	kg	15451 (34064)		

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:		4016TAG1A			
Alternator Make		Leroy Somer			
Alternator Model:		LL9324F			
Control Panel:		PowerWizard 1.1+			
Base Frame:		Heavy Duty Fabricated	Steel		
Circuit Breaker Type:		3 Pole ACB-Option			
Frequency:		50 HZ	60 HZ		
Engine Speed: RPM	rpm	1500			
Fuel Tank Capacity:	litres (US gal)	N/A (N/A)			
Fuel Consumption Prin		379.1 (100.1)			
Fuel Consumption Star		420.8 (111.2)			
	10.				
Engine Technica	I Data	16			
No. of Cylinders		VEE			
Alignment		4 STROKE			
Cycle	(:-)	160 (6.3)			
Bore	mm (in)		190 (7.5)		
Stroke	mm (in)		O AIR CHARGE COOLED		
Induction		WATER	O AIN CHANGE COOLED		
Cooling Method		ELECTRONIC			
Governing Type		ISO 8528			
Governing Class		13.6:1			
Compression Ratio		61.1 (3730)			
Displacement	L (cu. in)				
Moment of Inertia:	kg m² (lb/in²)	20.72 (70803)			
Voltage					
Ground		Negative 40			
Battery Charger Amps	leg (lla)	5570 (12280)			
Engine Weight Dry	kg (lb)				
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)	1588 (2130)			
Gross Engine Power St	andby kW (hp)	1741 (2335)			
BMEP Prime	kPa (psi)	2079 (301.5)			
BMEP Standby	kPa (psi)	2279 (330.5)			



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:	l/hr (US gal/hr)	420.8 (111.2)	379.1 (100.1)	278.4 (73.5)	189.3 (50)
50 Hz Standby	l/hr (US gal/hr)	=	420.8 (111.2)	306.1 (80.9)	205.5 (54.3)
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 Air Filter Type:		50 Hz	60 Hz
		'	Replaceable Element
Combustion Air Flow Prime	m³/min (cfm)	132 (4662)	
Combustion Air Flow Standby	m³/min (cfm)	140 (4944)	
Max. Combustion Air Intake Restriction	kPa	3.7 (14.9)	
Cooling System		50 Hz	60 Hz
Cooling System Capacity	l (US gal)	316 (83.5)	
Water Pump Type:			Centrifugal
Heat Rejected to Water & Lube Oil: Prime	kW (Btu/min)	586 (33325)	
Heat Rejected to Water & Lube Oil: Prime Heat Rejected to Water & Lube Oil: Stand	. ,	586 (33325) 629 (35771)	
,		. ,	

52.4 (70.3)

250 (1)

1812 (63990)

Radiator Fan Load:

Radiator Cooling Airflow:

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 (hp)

m³/min (cfm)

Pa (in H2O)

Lubrication System				
Oil Filter Type:		Spin-On, Full Flow		
Total Oil Capacity:	I (US gal)	238 (62.9)		
Oil Pan Capacity:	I (US gal)	214 (56.5)		
Oil Type:		API CG4 15W-40		
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)	362 (12784)	
Exhaust Gas Flow: Standby	m³/min (cfm)	362 (12784)	
Exhaust Gas Temperature: Prime	°C (°F)	500 (932)	
Exhaust Gas Temperature: Standby	°C (°F)	500 (932)	

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



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	
Alternator Operation	ng 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: 3.5						
Radio Interference:			EN61000-6			
Radiant Heat: 50 Hz		kW (Btu/min)	78.9 (4487)			
Radiant Heat: 60 Hz		kW (Btu/min)				
Alternator Perform	ance D	ata 50 Hz:				
Voltage Code			415/240 V	400/230 V	380/220 V	
Motor Starting Capability*	kVA		5086	4740	4295	
Short Circuit Capacity	%		300	300	300	300
Reactances	Xd		3.349	3.604	3.994	
	X'd		0.265	0.285	0.316	
	X″d		0.147	0.147	0.163	
Alternator Perform	ance D	ata 60 Hz				
Voltage Code						
Motor Starting Capability*	kVA					

300

300

300

300

Reactances shown are applicable to prime ratings.

%

Xd X'd X"d 300

Short Circuit Capacity

Reactances

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



Output Ratings	50 Hz			
		Prime		Standby
Voltage Code	kVA	kW	kVA	kW
415/240V	1825	1460	2000	1600
400/230V	1825	1460	2000	1600
380/220V	1825	1460	2000	1600
230/115V				
220/127V				
220/110V				
200/115V				
240V				
230V				
220V				
Outrout Botin as				
Output Ratings	00 HZ	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				



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

6.8 – 750 kVA electric power generation products in prime applications the warranty period is 12 months from date of start-up, unlimited hours (8760). For standby applications the warranty period is 24 months from date of start-up, limited to 500 hours per year.

730 – 2500 kVA electric power generation products in prime applications the warranty period 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.