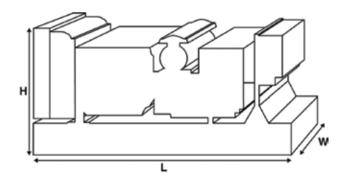


Output Ratings				
Voltage, Frequency	y	Prime	Standby	
400/230V, 50 Hz	kVA	800	900	
	kW	640	720	
480/277V, 60 Hz	kVA	844	938	
	kW	675.2	750.4	

Ratings at 0.8 power factor.

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





Soundproof Dimensions				
Length	cm	591.5		
Width	cm	231		
Height	cm	278		

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 Performance Data				
Engine Make		Perkins		
Engine Model:		4006-23TAG3A		
Alternator Make		Leroy Somer		
Alternator Model:		LL7224L		
Base Frame:		Heavy Duty Fabricated Steel		
Circuit Breaker Type:		3 Pole ACB/MCCB		
Frequency:		50 HZ	60 HZ	
Engine Speed: RPM	rpm	1500	1800	
Fuel Tank Capacity:	litres	1679		
Fuel Consumption Prime	litres (US gal)	171.2 (45.2)	198.9 (52.5)	
Fuel Consumption Standby	litres (US gal)	193.4 (51.1)	224.4 (59.3)	

### **Engine Technical Data**

No. of Cylinders6AlignmentIN LINECycle4 STROKEBoremm (in)160 (6.3)Strokemm (in)190 (7.5)InductionTURBOCHARGED AIR TO AIR CHARGE COOLEDCooling MethodWATER			
Cycle4 STROKEBoremm (in)160 (6.3)Strokemm (in)190 (7.5)InductionTURBOCHARGED AIR TO AIR CHARGE COOLED			
Boremm (in)160 (6.3)Strokemm (in)190 (7.5)InductionTURBOCHARGED AIR TO AIR CHARGE COOLED			
Stroke     mm (in)     190 (7.5)       Induction     TURBOCHARGED AIR TO AIR CHARGE COOLED			
Induction TURBOCHARGED AIR TO AIR CHARGE COOLED			
induction			
Cooling Method WATER			
Governing Type ELECTRONIC			
Governing Class ISO 8528			
Compression Ratio 13.6:1			
Displacement L (cu. in) 22.9 (1398.7)			
Moment of Inertia: kg m <sup>2</sup> (lb/in <sup>2</sup> ) 10.61 (36256)			
Voltage 24	24		
Ground Negative			
Battery Charger Amps 55	55		
Engine Weight Dry kg (lb) 2524 (5564)			
Engine Weight Wet kg (lb) 2663 (5871)			
Engine Performance Data50 Hz60 Hz			
Engine Speed rpm 1500 1800			
Gross Engine Power Prime         kW (hp)         705 (945)         759 (1018)			
Gross Engine Power Standby         kW (hp)         786 (1054)         839 (1125)			
BMEP Prime         kPa (psi)         2461 (356.9)         2208 (320.2)			
BMEP Standby         kPa (psi)         2743 (397.9)         2440 (353.9)			



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)	193.4 (51.1)	171.2 (45.2)	129.7 (34.3)	92 (24.3)
50 Hz Standby	l/hr (US gal/hr)	-	193.4 (51.1)	144.8 (38.3)	101 (26.7)
60 Hz Prime	l/hr (US gal/hr)	224.4 (59.3)	198.9 (52.5)	146.5 (38.7)	100.8 (26.6)
60 Hz Standby	l/hr (US gal/hr)	-	224.4 (59.3)	163.3 (43.1)	110.4 (29.2)

(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 (2437)	76 (2684)
Combustion Air Flow Standby	m³/min (cfm)	73 (2578)	78 (2755)
Max. Combustion Air Intake Restriction	<pa< td=""><td>3.7 (14.9)</td><td>3.7 (14.9)</td></pa<>	3.7 (14.9)	3.7 (14.9)
Cooling System		50 Hz	60 Hz
Cooling System Capacity	l (US gal)	106 (28)	106 (28)
Water Pump Type:			Centrifugal
Heat Rejected to Water & Lube Oil: Prime	kW (Btu/min)	280 (15923)	309 (17573)
Heat Rejected to Water & Lube Oil: Standby	/ kW (Btu/min)	310 (17629)	330 (18767)
Heat Radiation to Room*: Prime	kW (Btu/min)	105.1 (5977)	118 (6711)
Heat Radiation to Room*: Standby	kW (Btu/min)	118.5 (6739)	132 (5160)
Radiator Fan Load:	kW (hp)	29.9 (40.1)	44 (59)
Radiator Cooling Airflow:	m³/min (cfm)	978 (34538)	1248 (44073)
External Restriction to Cooling Airflow:	Pa (in H2O)	250 (1)	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.

Spin-On, Full Flow
123 (32.5)
113.4 (30)
API CG4 15W-40
WATER

Exhaust System		50 Hz	60 Hz
Maximum Allowable Back Pressure:	kPa (in Hg)	6.98 (2.1)	6.98 (2.1)
Exhaust Gas Flow: Prime	m³/min (cfm)	193 (6816)	209 (7381)
Exhaust Gas Flow: Standby	m³/min (cfm)	193 (6816)	209 (7381)
Exhaust Gas Temperature: Prime	°C (°F)	500 (932)	500 (932)
Exhaust Gas Temperature: Standby	°C (°F)	500 (932)	500 (932)



<b>Alternator Physical</b>	Data					
No. of Bearings:					1	
Insulation Class:	ation Class:				Н	
Winding Pitch:				2/3		
Winding Code					65	
Wires:					6	
Ingress Protection Rating:					IP23	
Excitation System:					AREP	
AVR Model:					R450M	
dependant on voltage code selected	b					
Alternator Operatir	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/I	LN:	%			4	
Radio Interference:					EN61000-6	
Radiant Heat: 50 Hz		kW (Btu/min)		39.5 (2246)		
Radiant Heat: 60 Hz		kW (Btu/min)			42 (2388)	
Alternator Perform	anco Da	ta 50 Hz.				
Alternator Ferrorina			415/240 V	400/230 V	380/220 V	
Voltage Code			+13/2+0 V	400/200 V	300/220 V	
Voltage Code						
Motor Starting Capability*	kVA		2268	2117	1924	
	%		2200	2	1921	
Short Circuit Capacity**	70		300	300	300	300
Short Circuit Capacity** Reactances			300 3.09	300 3.32	300 3.68	300
Short Circuit Capacity** Reactances	Xd		3.09	3.32	3.68	300
	Xd X'd		3.09 0.15	3.32 0.162	3.68 0.18	300
	Xd		3.09	3.32	3.68	300
	Xd X'd X"d	ta 60 Hz	3.09 0.15	3.32 0.162	3.68 0.18	300
Reactances	Xd X'd X"d	ta 60 Hz 480/277 V	3.09 0.15	3.32 0.162	3.68 0.18	300 440/254 V
Reactances Alternator Performa	Xd X'd X"d		3.09 0.15 0.13	3.32 0.162	3.68 0.18	
Reactances Alternator Performa	Xd X'd X"d		3.09 0.15 0.13	3.32 0.162	3.68 0.18	
Reactances Alternator Performa Voltage Code	Xd X'd X"d		3.09 0.15 0.13	3.32 0.162	3.68 0.18	
Reactances Alternator Performa Voltage Code Motor Starting Capability*	Xd X'd X"d ance Da	480/277 V	3.09 0.15 0.13 380/220 V	3.32 0.162	3.68 0.18	440/254 V
Reactances	Xd X'd X"d ance Da	480/277 V 2507	3.09 0.15 0.13 380/220 V 1620	3.32 0.162 0.13	3.68 0.18 0.114	440/254 V 2134
Reactances Alternator Performa Voltage Code Motor Starting Capability* Short Circuit Capacity**	Xd X'd X"d ance Da kVA %	480/277 V 2507 300	3.09 0.15 0.13 380/220 V 1620 300	3.32 0.162 0.13	3.68 0.18 0.114	440/254 V 2134 300

\*Based on 30% voltage dip at 0.6 power factor.

\*\* With optional independant excitation system (PMG / AUX winding)



Output Ratings 50 Hz					
		Prime	c c	Standby	
Voltage Code	kVA	kW	kVA	kW	
415/240V	800	640	900	720	
400/230V	800	640	900	720	
380/220V	800	640	899	719.2	
230/115V					
220/127V					
220/110V					
200/115V					
240V					
230V					
220V					

### Output Ratings 60 Hz

		Prime		Standby
Voltage Code	kVA	kW	kVA	kW
480/277V	844	675.2	938	750.4
440/254V	844	675.2	938	750.4
416/240V				
400/230V				
380/220V	835	668	913	730.4
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

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.

In line with our policy of continuous product development, we reserve the right to change specification without notice.