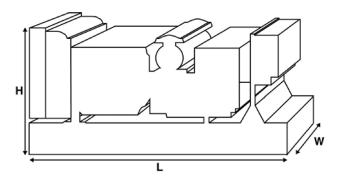


Output Ratings							
Voltage, Frequenc	у	Prime	Standby				
400/230V, 50 Hz	kVA	730	800				
	kW	584	640				
400/277\/ 6011=	kVA	750	844				
480/277V, 60 Hz	kW	600	675.2				



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	4280 (168.5)			
Width	mm	1731 (68.1)			
Height	mm	2379 (93.7)			
Weight (Dry)	kg	5814 (12818)			
Weight (Wet)	kg	5934 (13082)			

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		Perkins			
Engine Model:		4006-23TAG2A			
Alternator Make		Leroy Somer			
Alternator Model:		LL7224J			
Control Panel:		PowerWizard 1.1+			
Base Frame:		Heavy Duty Fabricated S	Steel		
Circuit Breaker Type:		3 Pole ACB/MCCB			
Frequency:		50 HZ	60 HZ		
Engine Speed: RPM	rpm	1500	1800		
Fuel Tank Capacity:	litres (US gal)	1494 (394.67)			
Fuel Consumption Prin	ne litres (US gal)	157.4 (41.6)	174.3 (46)		
Fuel Consumption Sta	ndby litres (US gal)	171.8 (45.4)	201.1 (53.1)		
Engine Technica	I Data				
No. of Cylinders		6			
Alignment		IN LINE			
Cycle		4 STROKE			
Bore	mm (in)		160 (6.3)		
Stroke	mm (in)	190 (7.5)	190 (7.5) TURBOCHARGED AIR TO AIR CHARGE COOLED		
Induction			O AIR CHARGE COOLED		
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 m² (lb/in²)	10.61 (36256)			
Voltage		24			
Ground		Negative			
Battery Charger Amps		55			
Engine Weight Dry	kg (lb)	2524 (5564)			
Engine Weight Wet	kg (lb)	2663 (5871)			
Engine Perform	anco Data	50 Hz	60 Hz		
		1500	1800		
Engine Speed	rpm	658 (882)	684 (917)		
Gross Engine Power Pr					
Gross Engine Power St		721 (967)	759 (1018)		
BMEP Prime	kPa (psi)	2297 (333.1)	1989 (288.5)		



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)	171.8 (45.4)	157.4 (41.6)	120.4 (31.8)	84 (22.2)
50 Hz Standby	l/hr (US gal/hr)	-	171.8 (45.4)	130.9 (34.6)	90.9 (24)
60 Hz Prime	l/hr (US gal/hr)	201.1 (53.1)	174.3 (46)	128.2 (33.9)	92 (24.3)
60 Hz Standby	l/hr (US gal/hr)	=	201.1 (53.1)	144.4 (38.1)	100.2 (26.5)

(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:		<u> </u>	Replaceable Element		
Combustion Air Flow Prime	m³/min (cfm)	64 (2260)	65 (2295)		
Combustion Air Flow Standby r	m³/min (cfm)	71 (2507)	72 (2543)		
Max. Combustion Air Intake Restriction	kPa	3.7 (14.9)	3.7 (14.9)		
			·		
Cooling System		50 Hz	60 Hz		
Cooling System Capacity	I (US gal)	106 (28)	106 (28)		
Water Pump Type:			Centrifugal		
Heat Rejected to Water & Lube Oil: Prime	kW (Btu/min)	231 (13137)	216 (12284)		
Heat Rejected to Water & Lube Oil: Standby	kW (Btu/min)	264 (15013)	252 (14331)		
		000(5404)	105 (5000)		

Water Pump Type:		Centrifug	al
Heat Rejected to Water & Lube Oil: Prime	kW (Btu/min)	231 (13137)	216 (12284)
Heat Rejected to Water & Lube Oil: Standby	kW (Btu/min)	264 (15013)	252 (14331)
Heat Radiation to Room*: Prime	kW (Btu/min)	99.9 (5681)	106 (6028)
Heat Radiation to Room*: Standby	kW (Btu/min)	114.2 (6494)	118 (4532)
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 anging and alternator			

^{*:} 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	tem	
Oil Filter Type:		Spin-On, Full Flow
Total Oil Capacity:	I (US gal)	123 (32.5)
Oil Pan Capacity:	l (US gal)	113.4 (30)
Oil Type:		API CG4 15W-40
Oil Cooling Method:		WATER

Exhaust System		50 Hz	60 Hz
Maximum Allowable Back Pressure:	kPa (in Hg)	5.98 (1.8)	5.98 (1.8)
Exhaust Gas Flow: Prime	m³/min (cfm)	180 (6357)	190 (6710)
Exhaust Gas Flow: Standby	m³/min (cfm)	180 (6357)	190 (6710)
Exhaust Gas Temperature: Prime	°C (°F)	430 (806)	430 (806)
Exhaust Gas Temperature: Standby	°C (°F)	430 (806)	430 (806)



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:					R450M	
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:				4	
Radio Interference:					EN61000-6	
Radiant Heat: 50 Hz	k'	W (Btu/min)	37.2 (2116)			
Radiant Heat: 60 Hz	k'	W (Btu/min)			39 (2218)	
Alternator Perform	ance Data	50 Hz:				
			415/240 V	400/230 V	380/220 V	
Voltage Code						
Motor Starting Capability*	kVA		2278	2128	1935	
Short Circuit Capacity	%		300	300	300	300
	70		300			
	Χd		2 676			300
Reactances	Xd X'd		2.676	2.88	3.192	300
nedCtdTiceS	X'd		0.132	2.88 0.142	3.192 0.157	300
nedCtdffCeS				2.88	3.192	300
Alternator Perform	X'd X"d	60 Hz	0.132	2.88 0.142	3.192 0.157	300
	X'd X"d	60 Hz 480/277 V	0.132	2.88 0.142	3.192 0.157	440/254 V
	X'd X"d		0.132 0.114	2.88 0.142	3.192 0.157	
Alternator Perform	X'd X"d		0.132 0.114	2.88 0.142	3.192 0.157	
Alternator Perform Voltage Code	X'd X"d ance Data	480/277 V	0.132 0.114 380/220 V	2.88 0.142	3.192 0.157	440/254 V
Alternator Perform Voltage Code Motor Starting Capability*	X'd X"d ance Data	480/277 V 2516	0.132 0.114 380/220 V	2.88 0.142 0.114	3.192 0.157 0.126	440/254 V 2145
Alternator Perform Voltage Code Motor Starting Capability* Short Circuit Capacity	X'd X"d ance Data	480/277 V 2516 300	0.132 0.114 380/220 V	2.88 0.142 0.114	3.192 0.157 0.126	440/254 V 2145 300

Reactances shown are applicable to prime ratings.

^{*}Based on 30% voltage dip at 0.6 power factor.

220/110V

208/120V

240/120 220/110



Output Ratings	50 Hz			
		Prime	:	Standby
Voltage Code	kVA	kW	kVA	kW
415/240V	730	584	800	640
400/230V	730	584	800	640
380/220V	730	584	800	640
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	750	600	844	675.2
440/254V	750	600	844	675.2
416/240V				
400/230V				
380/220V	735	588	808.5	646.8
240/139V				
240/120V				
230/115V				
220/127V				





Dealer Co	ontact Detai	ls		

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.