



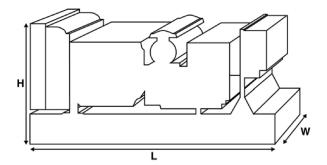
Output Ratings

Voltage, Frequency		Prime	Standby
400/230V, 50 Hz	kVA	800	900
400/2300, 30 HZ	kW	640	720
400/2771/ 6011-	kVA	844	938
480/277V, 60 Hz	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.



Dimensions and Weights			
Length	mm	4280 (168.5)	
Width	mm	1731 (68.1)	
Height	mm	2379 (93.7)	
Weight (Dry)	kg	5875 (12952)	
Weight (Wet)	kg	5995 (13217)	

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

Head Office

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Engine Make		Perkins			
Engine Model:		4006-23TAG3A			
Alternator Make		Leroy Somer			
Alternator Model:		LL7224L			
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 Prim	e litres (US gal)	171.2 (45.2)	198.9 (52.5)		
Fuel Consumption Stan	dby litres (US gal)	193.4 (51.1)	224.4 (59.3)		
Engine Technical	Data				
No. of Cylinders		6			
Alignment		IN LINE			
Cycle		4 STROKE			
Bore mm (in)		160 (6.3)			
Stroke	mm (in)	190 (7.5)			
Induction		TURBOCHARGED AIR TO 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	Negative		
Battery Charger Amps		55			
Engine Weight Dry	kg (lb)	2524 (5564)			
Engine Weight Wet kg (lb)		2663 (5871)			
Engine Performance Data		50 Hz	60 Hz		
Engine Speed	rpm	1500	1800		
Gross Engine Power Prin	ne kW (hp)	705 (945)	759 (1018)		
Gross Engine Power Sta	ndby 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)		



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Fuel System						
Fuel Filter Type:			Replaceable Eler	ment		
Recommended Fuel:			Class A2 Diesel	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)	

Air System		50 Hz	60 Hz
Air Filter Type:			Replaceable Element
Combustion Air Flow Prime r	m³/min (cfm)	69 (2437)	76 (2684)
Combustion Air Flow Standby r	m³/min (cfm)	73 (2578)	78 (2755)
Max. Combustion Air Intake Restriction	(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.

Lubrication System			
Oil Filter Type:			Spin-On, Full Flow
Total Oil Capacity: I (US	gal)		123 (32.5)
Oil Pan Capacity: I (US	gal)		113.4 (30)
Oil Type:			API CG4 15W-40
Oil Cooling Method:			WATER
Exhaust System		50 Hz	60 Hz
Maximum Allowable Back Press	ure: 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: Stand	lby °C (°F)	500 (932)	500 (932)



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Fuel System						
Fuel Filter Type:			Replaceable Eler	ment		
Recommended Fuel:			Class A2 Diesel	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)	

Air System		50 Hz	60 Hz
Air Filter Type:			Replaceable Element
Combustion Air Flow Prime r	n³/min (cfm)	69 (2437)	76 (2684)
Combustion Air Flow Standby r	n³/min (cfm)	73 (2578)	78 (2755)
Max. Combustion Air Intake Restriction	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).

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Lubrication System			
Oil Filter Type:			Spin-On, Full Flow
Total Oil Capacity: I (US	gal)		123 (32.5)
Oil Pan Capacity: I (US	gal)		113.4 (30)
Oil Type:			API CG4 15W-40
Oil Cooling Method:			WATER
Exhaust System		50 Hz	60 Hz
Maximum Allowable Back Press	ure: 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	e °C (°F)	500 (932)	500 (932)
Exhaust Gas Temperature: Stand	dby °C (°F)	500 (932)	500 (932)



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Alternator Physical No. of Bearings:					1		
Insulation Class:					H		
Winding Pitch:					2/3		
Winding Code					6S		
Wires:					6		
Ingress Protection Rating:					IP23		
Excitation System:					AREP		
AVR Model:					R450M		
Alternator Operatin	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/L	_N:				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 Performa	ance Da	ta 50 Hz:	415/2401/	400/2201/	200/2201/		
Voltage Code			415/240 V	400/230 V	380/220 V		
Motor Starting Capability*	kVA		2268	2117	1924		
Short Circuit Capacity	%		300	300	300	300	
Reactances	Xd		3.09	3.32	3.68	500	
neuerances	X'd		0.15	0.162	0.18		
	X"d		0.13	0.13	0.114		
	A.G.		0.15	0.15	0.114		
Alternator Performa	ance Da	ta 60 Hz					
		480/277 V	380/220 V			440/254 V	
Voltage Code							
Motor Starting Capability*	kVA	2507	1620			2134	
Short Circuit Capacity	%	300	300	300	300	300	
Reactances	Xd	2.921	4.61			3.476	
	X′d	0.143	0.225			0.17	
		0.114	0.18				



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