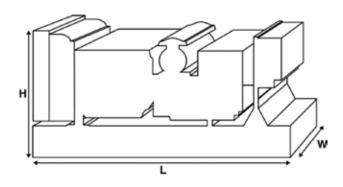


Output Ratings						
Voltage, Frequency		Prime	Standby			
400/230 V, 50 Hz	kVA	798.7	891.2			
	kW	638.96	712.96			
kVA						
	kW					

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	4280 (168.5)		
Width	mm	1731 (68.1)		
Height	mm	2379 (93.7)		
Weight (Dry)	kg	5818 (12826)		
Weight (Wet)	kg	5938 (13091)		

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:		4006-23T/	AG3A			
Alternator Make		FG Wilson				
Alternator Model:		FGL70030				
Control Panel:	Control Panel:			PowerWizard 1.1+		
Base Frame:	Base Frame:			Heavy Duty Fabricated Steel		
Circuit Breaker Type:		Options A	vailable			
Frequency:		50 HZ		60 HZ		
Engine Speed: RPM	rpm	1500				
Fuel Tank Capacity:	litres (US gal)	1494 (394	67)			
Fuel Consumption Prime	litres (US gal)/hr	172.9 (45.7	7)			
Fuel Consumption Standby	litres (US gal)/hr	195.5 (51.6	5)			

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 CHAR	GE 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 Performan	ce Data	50 Hz	60 Hz	
Engine Speed	rpm	1500		
Gross Engine Power Prime kW (hp)		705 (945)		
Gross Engine Power Stand	lby kW (hp)	786 (1054)		
BMEP Prime	kPa (psi)	2461 (356.9)		
BMEP Standby	kPa (psi)	2743 (397.9)		



Fuel System					
Fuel Filter Type:			Replaceable Elei	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)	195.5 (51.6)	172.9 (45.7)	130.7 (34.5)	92.7 (24.5)
50 Hz Standby	l/hr (US gal/hr)	-	195.5 (51.6)	146 (38.6)	101.7 (26.9)
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		50 Hz	60 Hz
Air Filter Type:			Replaceable Element
Combustion Air Flow Prime	m³/min (cfm)	69 (2437)	
Combustion Air Flow Standby	m³/min (cfm)	73 (2578)	
Max. Combustion Air Intake Restriction	кРа	3.7 (14.9)	
Cooling System		50 Hz	60 Hz
Cooling System Capacity	l (US gal)	106 (28)	
Water Pump Type:			Centrifugal
Heat Rejected to Water & Lube Oil: Prime	kW (Btu/min)	280 (15923)	
Heat Rejected to Water & Lube Oil: Standby	/ kW (Btu/min)	310 (17629)	
Heat Radiation to Room*: Prime	kW (Btu/min)	112.4 (6392)	
Heat Radiation to Room*: Standby	kW (Btu/min)	126.3 (7183)	
Radiator Fan Load:	kW (hp)	29.9 (40.1)	
Radiator Cooling Airflow:	m³/min (cfm)	978 (34538)	
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:	l (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)	6 (1.8)	
Exhaust Gas Flow: Prime	m³/min (cfm)	193 (6816)	
Exhaust Gas Flow: Standby	m³/min (cfm)	193 (6816)	
Exhaust Gas Temperature: Prime	°C (°F)	500 (932)	
Exhaust Gas Temperature: Standby	°C (°F)	500 (932)	



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:					SHUNT	
AVR Model:					R150	
dependant on voltage code selecte	d					
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/	LN:	%			3.5	
Radio Interference:					EN61000-6	
Radiant Heat: 50 Hz		kW (Btu/min)	47.3 (2690)			
Radiant Heat: 60 Hz		kW (Btu/min)				
Voltage Code			415/240 V	400/230 V	380/220 V	
Motor Starting Capability*	kVA		1381	1285	1161	
Short Circuit Capacity**	%		270	270	270	270
Reactances	Xd		3.15	3.39	3.75	
	X′d		0.151	0.162	0.179	
	X″d		0.13	0.13	0.143	
Alternator Perform	ance D	ata 60 Hz				
Voltage Code						
Motor Starting Capability*	kVA					
Short Circuit Capacity**	%	270	270	270	270	270
Reactances	Xd					
nedeturices	X'd					
	X"d					
Reactances shown are appl						

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	799.3	639.44	892	713.6	
400/230V	798.7	638.96	891.2	712.96	
380/220V	797	637.6	889.2	711.36	
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				
440/254V				
416/240V				
400/230V				
380/220V				
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.