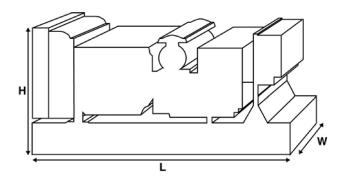


Output Ratings				
Voltage, Frequency		Prime Standby		Standby
400/230V, 50 Hz	kVA	1700		1875
	kW	1360		1500
480/277V, 60 Hz	kVA			
	kW			

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	5259 (207)	
Width	mm	2192 (86.3)	
Height	mm	2453 (96.6)	
Weight (Dry)	kg	10997 (24244)	
Weight (Wet)	kg	11207 (24707)	

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 Perform	mance Data		
Engine Make		Perkins	
Engine Model:		4012-46TAG3A	
Alternator Make		Leroy Somer	
Alternator Model:		LL9324F	
Control Panel:		PowerWizard 1.1+	
Base Frame:		Heavy Duty Fabricated Steel	
Circuit Breaker Type:		Options Available	
Frequency:		50 HZ 60 HZ	
Engine Speed: RPM	rpm	1500	
Fuel Tank Capacity:	litres (US gal)	N/A (N/A)	
Fuel Consumption Prime	litres (US gal)	349.7 (92.4)	
Fuel Consumption Standby	litres (US gal)	390.2 (103.1)	
Engine Technical Da	ata		
No. of Cylinders		12	
Alignment		VEE	
Cycle		4 STROKE	
Bore r	nm (in)	160 (6.3)	
Stroke r	nm (in)	190 (7.5)	
Induction		TURBOCHARGED AIR TO AIR CHARGE COOLED	
Cooling Method		WATER	

Cooling MethodWATERGoverning TypeELECTRONICGoverning ClassISO 8528Compression Ratio13.0:1DisplacementL (cu. in)Moment of Inertia:kg m² (lb/in²)Voltage24GroundNegativeBattery Charger Amps40Engine Weight Drykg (lb)Kg (lb)Kg (lb/IDE)	Induction		TURBOCHARGED AIR TO AIR CHARGE COOLED
Governing (ripce)Final Reference (rippe)Governing ClassISO 8528Compression Ratio13.0:1DisplacementL (cu. in)Moment of Inertia:kg m² (lb/in²)Voltage24GroundSequerce (rippe)Battery Charger Amps40Engine Weight Drykg (lb)	Cooling Method		WATER
Compression Ratio13.0:1DisplacementL (cu. in)45.8 (2794.9)Moment of Inertia:kg m² (lb/in²)19.3 (65951)Voltage24Ground	Governing Type		ELECTRONIC
Compression nationCompression nationDisplacementL (cu. in)45.8 (2794.9)Moment of Inertia:kg m² (lb/in²)19.3 (65951)Voltage24GroundSequenceNegativeBattery Charger Amps40Engine Weight Drykg (lb)4400 (9700)	Governing Class		ISO 8528
Moment of Inertia:kg m² (lb/in²)19.3 (65951)Voltage24GroundNegativeBattery Charger Amps40Engine Weight Drykg (lb)Kg (lb)4400 (9700)	Compression Ratio		13.0:1
Woltage 24 Ground Negative Battery Charger Amps 40 Engine Weight Dry kg (lb) 4400 (9700)	Displacement	L (cu. in)	45.8 (2794.9)
GroundNegativeBattery Charger Amps40Engine Weight Drykg (lb)4400 (9700)	Moment of Inertia:	kg m² (lb/in²)	19.3 (65951)
Battery Charger Amps 40 Engine Weight Dry kg (lb) 4400 (9700)	Voltage		24
Engine Weight Dry kg (lb) 4400 (9700)	Ground		Negative
	Battery Charger Amps		40
	Engine Weight Dry	kg (lb)	4400 (9700)
Engine Weight Wet kg (lb) 4604 (10150)	Engine Weight Wet	kg (lb)	4604 (10150)

Engine Performance	Data	50 Hz	60 Hz
Engine Speed	rpm	1500	
Gross Engine Power Prime	kW (hp)	1500 (2012)	
Gross Engine Power Standby	kW (hp)	1643 (2203)	
BMEP Prime	kPa (psi)	2618 (379.7)	
BMEP Standby	kPa (psi)	2868 (415.9)	



Fuel System					
Fuel Filter Type:			Replaceable Eler	nent	
Recommended Fuel:			Class A2 Diesel		
Fuel Consumption at		110 % Load	100 % Load	75 % Load	50 % Load
50 Hz Prime:	l/hr (US gal/hr)	390.2 (103.1)	349.7 (92.4)	259.9 (68.7)	182.5 (48.2)
50 Hz Standby	l/hr (US gal/hr)	-	390.2 (103.1)	286.4 (75.7)	197.5 (52.2)
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 r	n ³ /min (cfm)	125 (4414)	
Combustion Air Flow Standby r	n³/min (cfm)	135 (4767)	
Max. Combustion Air Intake Restriction	Pa	4 (16.1)	
Cooling System		50 Hz	60 Hz
Cooling System Capacity	l (US gal)	207 (54.7)	
Water Pump Type:			Centrifugal
Heat Rejected to Water & Lube Oil: Prime	kW (Btu/min)	510 (29003)	
Heat Rejected to Water & Lube Oil: Standby	kW (Btu/min)	625 (35543)	
Heat Radiation to Room*: Prime	kW (Btu/min)	174.1 (9901)	
Heat Radiation to Room*: Standby	kW (Btu/min)	193.7 (11016)	
Radiator Fan Load:	kW (hp)	64 (85.8)	
Radiator Cooling Airflow:	m³/min (cfm)	1920 (67804)	
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)	177 (46.8)	
Oil Pan Capacity:	l (US gal)	159 (42)	
Oil Type:		API CH4 15W-40	
Oil Cooling Method:		WATER	

Exhaust System		50 Hz	60 Hz
Maximum Allowable Back Pressure:	kPa (in Hg)	5 (1.5)	
Exhaust Gas Flow: Prime	m³/min (cfm)	350 (12360)	
Exhaust Gas Flow: Standby	m³/min (cfm)	350 (12360)	
Exhaust Gas Temperature: Prime	°C (°F)	480 (896)	
Exhaust Gas Temperature: Standby	°C (°F)	480 (896)	



% % % %			1 H 2/3 6S 6 IP23 AREP R449 2250 +/- 0.5	
%			H 2/3 6S 6 IP23 AREP R449 2250 +/- 0.5	
%			2/3 6S 6 IP23 AREP R449 2250 +/- 0.5	
%			6S 6 IP23 AREP R449 2250 +/- 0.5	
%			6 IP23 AREP R449 2250 +/- 0.5	
%			IP23 AREP R449 2250 +/- 0.5	
%			AREP R449 2250 +/- 0.5	
%			R449 2250 +/- 0.5	
%			2250 +/- 0.5	
%			+/- 0.5	
%			+/- 0.5	
%			+/- 0.5	
%				
			50	
%			2	
			3.5	
			EN61000-6	
kW (Btu/min)			70.7 (4021)	
kW (Btu/min)				
	415/240 V	400/230 V	380/220 V	
	5000	1710	1205	
				200
				300
	0.13/	0.13/	0.152	
ata 60 Hz				
	300	300	300	300
300	500			
300				
300				
	ata 50 Hz:	ata 50 Hz: 415/240 V 5086 300 3.119 0.247 0.137	415/240 V 400/230 V 415/240 V 400/230 V 5086 4740 300 300 3.119 3.358 0.247 0.266 0.137 0.137	A15/240 V 400/230 V 380/220 V 5086 4740 4295 300 300 300 3.119 3.358 3.72 0.247 0.266 0.294 0.137 0.137 0.152

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	1700	1360	1875	1500	
400/230V	1700	1360	1875	1500	
380/220V	1700	1360	1875	1500	
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



01953 454540 www.stuartgroup.ltd.uk enquiries@stuartgroup.info

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.