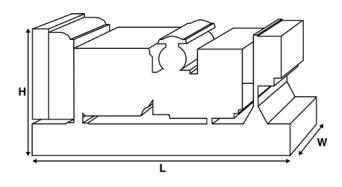


Output Ratings					
Voltage, Frequency Prime Standby					
400/230V, 50 Hz	kVA kW	1825 1460	2000		
480/277V, 60 Hz	kVA				
	kW				

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	5799 (228.3)		
Width	mm	2298 (90.5)		
Height	mm	3068 (120.8)		
Weight (Dry)	kg	15135 (33367)		
Weight (Wet)	kg	15451 (34064)		

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 Performa	ance Data			
Engine Make		Perkins		
Engine Model:		4016TAG1A		
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)	379.1 (100.1)		
Fuel Consumption Standby	litres (US gal)	420.8 (111.2)		

Engine Technical Data

.			
No. of Cylinders		16	
Alignment		VEE	
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)	61.1 (3730)	
Moment of Inertia:	kg m² (lb/in²)	20.72 (70803)	
Voltage		24	
Ground		Negative	
Battery Charger Amps		40	
Engine Weight Dry	kg (lb)	5570 (12280)	
Engine Weight Wet	kg (lb)	5847 (12890)	
Engine Performan	ce Data	50 Hz	60 Hz
Engine Speed	rpm	1500	
Gross Engine Power Prime	kW (hp)	1588 (2130)	
Gross Engine Power Stand	by kW (hp)	1741 (2335)	
BMEP Prime	kPa (psi)	2079 (301.5)	
BMEP Standby	kPa (psi)	2279 (330.5)	



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)	420.8 (111.2)	379.1 (100.1)	278.4 (73.5)	189.3 (50)
50 Hz Standby	l/hr (US gal/hr)	-	420.8 (111.2)	306.1 (80.9)	205.5 (54.3)
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	m³/min (cfm)	132 (4662)		
Combustion Air Flow Standby r	m³/min (cfm)	140 (4944)		
Max. Combustion Air Intake Restriction	(Pa	3.7 (14.9)		
Cooling System		50 Hz	60 Hz	
Cooling System Capacity	l (US gal)	316 (83.5)		
Water Pump Type:			Centrifugal	
Heat Rejected to Water & Lube Oil: Prime	kW (Btu/min)	586 (33325)		
Heat Rejected to Water & Lube Oil: Standby	kW (Btu/min)	629 (35771)		
Heat Radiation to Room*: Prime	kW (Btu/min)	175 (9952)		
Heat Radiation to Room*: Standby	kW (Btu/min)	185.9 (10572)		
Radiator Fan Load:	kW (hp)	52.4 (70.3)		
Radiator Cooling Airflow:	m³/min (cfm)	1812 (63990)		
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)	238 (62.9)	
Oil Pan Capacity:	l (US gal)	214 (56.5)	
Oil Type:		API CG4 15W-40	
Oil Cooling Method:		WATER	

Exhaust System		50 Hz	60 Hz
Maximum Allowable Back Pressure:	kPa (in Hg)	9.3 (2.7)	
Exhaust Gas Flow: Prime	m³/min (cfm)	362 (12784)	
Exhaust Gas Flow: Standby	m³/min (cfm)	362 (12784)	
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:					AREP	
AVR Model:					R449	
dependant on voltage code selected	d					
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/	LN:	%			3.5	
					EN61000-6	
Radio Interference:						
Radio Interference: Radiant Heat: 50 Hz		kW (Btu/min)			78.9 (4487)	
Radiant Heat: 50 Hz Radiant Heat: 60 Hz	ance Da	kW (Btu/min)				
	ance Da	kW (Btu/min)	415/240 V	400/230 V		
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Perform Voltage Code	ance Da	kW (Btu/min)	415/240 V 5086		78.9 (4487)	
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Perform Voltage Code Motor Starting Capability*		kW (Btu/min)		400/230 V	78.9 (4487) 	300
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Perform Voltage Code Motor Starting Capability* Short Circuit Capacity**	kVA	kW (Btu/min)	5086	400/230 V 4740	78.9 (4487) 380/220 V 4295	300
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Perform Voltage Code Motor Starting Capability* Short Circuit Capacity**	kVA %	kW (Btu/min)	5086 300	400/230 V 4740 300	78.9 (4487) 380/220 V 4295 300	300
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Perform Voltage Code Motor Starting Capability* Short Circuit Capacity**	kVA % Xd	kW (Btu/min)	5086 300 3.349	400/230 V 4740 300 3.604	78.9 (4487) 380/220 V 4295 300 3.994	300
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Perform	kVA % Xd X'd X'd	kW (Btu/min)	5086 300 3.349 0.265	400/230 V 4740 300 3.604 0.285	78.9 (4487) 380/220 V 4295 300 3.994 0.316	300
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Perform Voltage Code Motor Starting Capability* Short Circuit Capacity** Reactances	kVA % Xd X'd X'd	kW (Btu/min)	5086 300 3.349 0.265	400/230 V 4740 300 3.604 0.285	78.9 (4487) 380/220 V 4295 300 3.994 0.316	300
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Perform Voltage Code Motor Starting Capability* Short Circuit Capacity** Reactances Alternator Perform Voltage Code	kVA % Xd X'd X'd	kW (Btu/min)	5086 300 3.349 0.265	400/230 V 4740 300 3.604 0.285	78.9 (4487) 380/220 V 4295 300 3.994 0.316	300
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Perform Voltage Code Motor Starting Capability* Short Circuit Capacity** Reactances Alternator Perform Voltage Code Motor Starting Capability*	kVA % Xd X'd X''d ance Da	kW (Btu/min)	5086 300 3.349 0.265	400/230 V 4740 300 3.604 0.285	78.9 (4487) 380/220 V 4295 300 3.994 0.316	300
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Perform Voltage Code Motor Starting Capability* Short Circuit Capacity** Reactances Alternator Perform Voltage Code Motor Starting Capability* Short Circuit Capacity**	kVA % Xd X'd X''d ance Da kVA %	kW (Btu/min) ata 50 Hz: ata 60 Hz	5086 300 3.349 0.265 0.147	400/230 V 4740 300 3.604 0.285 0.147	 78.9 (4487) 78.9 (44	
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Perform Voltage Code Motor Starting Capability* Short Circuit Capacity** Reactances Alternator Perform	kVA % Xd X'd X''d ance Da	kW (Btu/min) ata 50 Hz: ata 60 Hz	5086 300 3.349 0.265 0.147	400/230 V 4740 300 3.604 0.285 0.147	 78.9 (4487) 78.9 (44	

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	1825	1460	2000	1600	
400/230V	1825	1460	2000	1600	
380/220V	1825	1460	2000	1600	
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.