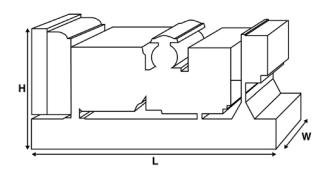




Ratings at 0.8 power factor.

Please refer to the output ratings technical data section for specific generator set outputs per voltage.



Dimensions and Weights					
Length	mm	3800 (149.6)			
Width	mm	1131 (44.5)			
Height	mm	2156 (84.9)			
Weight (Dry)	kg	3175 (7000)			
Weight (Wet)	kg	3233 (7128)			

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).

**Head Office** 

#### **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

: contact your local Dealer or visit:

St Ivel Way, Warmley, Bristol BS30 8TY T. 0370 850 0858 F. 0370 850 0851

UKAS ANOVIGNOS





<b>Ratings and Perfor</b>	mance Data				
Engine Make		Perkins			
Engine Model:		2206D-E13TAG3A			
Alternator Make		FG Wilson	FG Wilson		
Alternator Model:		FG29A320	FG29A320		
Control Panel:		0			
Base Frame:		Heavy Duty Fabricated	Steel		
Circuit Breaker Type:		3 Pole MCCB			
Frequency:		50 HZ	60 HZ		
Engine Speed: RPM	rpm	1500			
Fuel Tank Capacity:	litres (US gal)	888 (234.58)			
Fuel Consumption Prime	litres (US gal)	88.5 (23.4)			
Fuel Consumption Standb	oy litres (US gal)	97.8 (25.8)			
Engine Technical D	)ata				
No. of Cylinders		6			
Alignment		IN LINE			
Cycle		4 STROKE	4 STROKE		
Bore	mm (in)	130 (5.1)	130 (5.1)		
Stroke	mm (in)	157 (6.2)	157 (6.2)		
Induction		TURBOCHARGED AIR TO	) AIR CHARGE COOLED		
Cooling Method		WATER			
Governing Type		ELECTRONIC	ELECTRONIC		
Governing Class		ISO 8528 G2			
Compression Ratio		15.8:1			
Displacement	L (cu. in)	12.5 (762.8)			
Moment of Inertia:	kg m² (lb/in²)	2.77 (9465)			
Voltage		24			
Ground		Negative			
Battery Charger Amps		70			
Engine Weight Dry	kg (lb)	1301 (2868)			
Engine Weight Wet	kg (lb)	1351 (2978)			
Engine Performan	 ice Data	50 Hz	60 Hz		
Engine Speed	rpm	1500			
Gross Engine Power Prime	<u> </u>	367 (492)			
Gross Engine Power Stanc		412 (553)			
BMEP Prime	kPa (psi)	2348 (340.6)			
	4 /				



kPa (psi)

**BMEP Standby** 











2636 (382.3)

<b>Fuel System</b>					
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)	97.8 (25.8)	88.5 (23.4)	69.4 (18.3)	50.1 (13.2)
50 Hz Standby	l/hr (US gal/hr)	-	97.8 (25.8)	76.5 (20.2)	55.1 (14.6)
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 classA2,EN590

Air System		50 Hz		60 Hz	
Air Filter Type:			Paper E	lement	
Combustion Air Flow Prime	m³/min (cfm)	25.6 (904)			
Combustion Air Flow Standby	m³/min (cfm)	28.1 (992)			
Max. Combustion Air Intake Restriction	kPa	6.2 (24.9)			

Cooling System		50 Hz	60 Hz	
Cooling System Capacity	l (US gal)	45.2 (11.9)	<u>'</u>	
Water Pump Type:			Centrifugal	
Heat Rejected to Water & Lube Oil: Prime	kW (Btu/min)	126.8 (7211)		
Heat Rejected to Water & Lube Oil: Standby	kW (Btu/min)	140 (7962)		
Heat Radiation to Room*: Prime	kW (Btu/min)	55.3 (3145)		
Heat Radiation to Room*: Standby	kW (Btu/min)	65.4 (3719)		
Radiator Fan Load:	kW (hp)	14 (18.8)		
Radiator Cooling Airflow:	m³/min (cfm)	398.4 (14069)		
External Restriction to Cooling Airflow:	Pa (in H2O)	125 (0.5)		

<sup>\*:</sup> 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:		Eco, Full flow		
Total Oil Capacity:	l (US gal)	40 (10.6)		
Oil Pan Capacity:	l (US gal)	38 (10)		
Oil Type:		API CG4 SAE15W-40		
Oil Cooling Method:		WATER		

Exhaust System		50 Hz	60 Hz	
Maximum Allowable Back Pressure:	kPa (in Hg)	10 (3)		
Exhaust Gas Flow: Prime	m³/min (cfm)	72 (2543)		
Exhaust Gas Flow: Standby	m³/min (cfm)	75.8 (2677)		
Exhaust Gas Temperature: Prime	°C (°F)	630 (1166)		
Exhaust Gas Temperature: Standby	°C (°F)	630 (1166)		



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<b>Alternator Physical</b>	Data					
No. of Bearings:					1	
Insulation Class:					Н	
Winding Pitch:					2/3	
Winding Code					R1	
Wires:	Wires:				12	
Ingress Protection Rating:					IP21	
Excitation System:					SHUNT	
AVR Model:					A-OPT-04E	
Alternator Operatin	ng Data					
Overspeed: rpm	<u> </u>				2250	
Voltage Regulation: (Steady state)					+/- 1.0	
Wave Form NEMA = TIF:				50		
Wave Form IEC = THF:			2			
Total Harmonic content LL/L	_N:		3			
Radio Interference:				EN61000-6		
Radiant Heat: 50 Hz		kW (Btu/min)		25.4 (1444)		
Radiant Heat: 60 Hz		kW (Btu/min)				
Alternator Performa	ance Dat	ta 50 Hz:				
			415/240 V	400/230 V	380/220 V	
Voltage Code						
				230 V		
Motor Starting Capability*	kVA		973	895	805	
Short Circuit Capacity	%		300	300	300	300
Reactances	Xd		3.084	3.32	3.494	
	X'd		0.113	0.121	0.127	
	X"d		0.11	0.11	0.116	

Voltage Code

Motor Starting Capability*	kVA					
Short Circuit Capacity	%	300	300	300	300	300
Reactances	Xd					
	X'd					
	X"d					

Reactances shown are applicable to prime ratings.













<sup>\*</sup>Based on 30% voltage dip at 0.6 power factor.

Output Ratings	50 Hz				
		Prime		Standby	
Voltage Code	kVA	kW	kVA	kW	
415/240V	400	320	450	360	
400/230V	400	320	450	360	
380/220V	380	304	437	349.6	
230/115V	400	320	450	360	
220/127V					
220/110V					
200/115V					
240V					
230V					
220V					
Output Ratings	- 60 U-				
Output Ratings	00112	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					



240/120220/110

