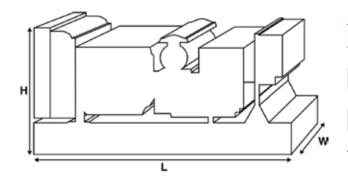


Output Ratings						
Voltage, Frequency		Prime	Standby			
400/230 V, 50 Hz	kVA	400	450			
	kW	320	360			
	kVA					
	kW					



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	3800 (149.6)			
Width	mm	1131 (44.5)			
Height	mm	2156 (84.9)			
Weight (Dry)	kg	3195 (7044)			
Weight (Wet)	kg	3253 (7172)			

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 Perfo	rmance Data					
Engine Make		Perkins				
Engine Model:		2206A-E13TAG3				
Alternator Make		FG Wilson				
Alternator Model:		FG29A320				
Control Panel:		FG100				
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)/hr	78.2 (20.7)				
Fuel Consumption Standl	oy litres (US gal)/hr	87.2 (23)				
Engine Technical [Data					
No. of Cylinders		6				
Alignment		IN LINE				
Cycle		4 STROKE				
Bore	mm (in)	130 (5.1)	130 (5.1)			
Stroke mm (in)		157 (6.2)	157 (6.2)			
Induction		TURBOCHARGED AIR T	TURBOCHARGED AIR TO AIR CHARGE COOLED			
Cooling Method		WATER	WATER			
Governing Type		ELECTRONIC				
Governing Class		ISO 8528 G2				
Compression Ratio		16.3:1				
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 Performar	nce Data	50 Hz	60 Hz			
Engine Speed	rpm	1500				
Gross Engine Power Prime		368.4 (494)				
Gross Engine Power Stand		412.5 (553)				
BMEP Prime	kPa (psi)	2357 (341.9)				
BMEP Standby	kPa (psi)	2639 (382.8)				



Fuel System					
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)	87.2 (23)	78.2 (20.7)	60 (15.9)	41.8 (11)
50 Hz Standby	l/hr (US gal/hr)	-	87.2 (23)	66.7 (17.6)	46.4 (12.3)
60 Hz Prime	l/hr (US gal/hr)				
60 Hz Standby	I/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:		Non Canister			
Combustion Air Flow Prime	m³/min (cfm)	24.3 (858)			
Combustion Air Flow Standby	m³/min (cfm)	26.4 (932)			
Max. Combustion Air Intake Restriction	kPa	6.4 (25.7)			

Cooling System		50 Hz	60 Hz	
Cooling System Capacity	l (US gal)	45.2 (11.9)	'	
Water Pump Type:			Centrifugal	
Heat Rejected to Water & Lube Oil: Prime	kW (Btu/min)	127.3 (7239)		
Heat Rejected to Water & Lube Oil: Standby	kW (Btu/min)	139.9 (7956)		
Heat Radiation to Room*: Prime	kW (Btu/min)	56.2 (3196)		
Heat Radiation to Room*: Standby	kW (Btu/min)	64.7 (3679)		
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)		

^{*:} 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 Sys	tem	
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 CH4 SAE15W-40
Oil Cooling Method:		WATER

	50 Hz	60 Hz	
kPa (in Hg)	10 (3)		
m³/min (cfm)	64.6 (2281)		
m³/min (cfm)	72.5 (2560)		
°C (°F)	573 (1063)		
°C (°F)	630 (1166)		
	m³/min (cfm) m³/min (cfm) °C (°F)	m³/min (cfm) 64.6 (2281) m³/min (cfm) 72.5 (2560) °C (°F) 573 (1063)	kPa (in Hg) 10 (3) m³/min (cfm) 64.6 (2281) m³/min (cfm) 72.5 (2560) °C (°F) 573 (1063)



Alternator Physical Data	
No. of Bearings:	1
Insulation Class:	Н
Winding Pitch:	2/3
Winding Code	R1
Wires:	12
Ingress Protection Rating:	IP21
Excitation System:	SHUNT
AVR Model:	A106 MKII

^{*} dependant on voltage code selected

Alternator Operating Data		
Overspeed: rpm		2250
Voltage Regulation: (Steady state)	%	+/- 1.0
Wave Form NEMA = TIF:		50
Wave Form IEC = THF:	%	2
Total Harmonic content LL/LN:	%	3
Radio Interference:		EN61000-6
Radiant Heat: 50 Hz	kW (Btu/min)	24.9 (1416)
Radiant Heat: 60 Hz	kW (Btu/min)	

Alternator Performance Data 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				

Alternator Performance Data 60 Hz

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.

^{*}Based on 30% voltage dip at 0.6 power factor.

^{**} With optional independant excitation system (PMG / AUX winding)



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 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

The warranty for this product in prime applications 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.

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.