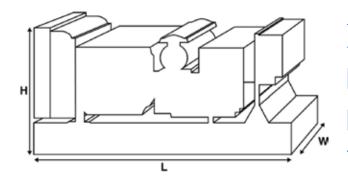


Output Ratings						
Voltage, Frequency		Prime	Standby			
	kVA kW					
480/277V, 60 Hz	kVA kW	400 320	437.5 350			



Ratings at 0.8 power factor.

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



Dimension	ns and Weights	
Length	mm	3800 (149.6)
Width	mm	1131 (44.5)
Height	mm	2156 (84.9)
Weight (Dry)	kg	3103 (6841)
Weight (Wet)	kg	3161 (6969)

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



Engine Make		Perkins				
Engine Model:		2206A-E13TAG5				
Alternator Make		FG Wilson				
Alternator Model:		FG29A280				
Control Panel:		FG100				
Base Frame:		Heavy Duty Fabricated	Steel			
Circuit Breaker Type:		3 Pole MCCB				
Frequency:		50 HZ	60 HZ			
Engine Speed: RPM	rpm		1800			
Fuel Tank Capacity:	litres (US gal)	888 (234.58)				
Fuel Consumption Prim			80.4 (21.2)			
Fuel Consumption Stan			88.1 (23.3)			
Engine Technical	Data	6				
No. of Cylinders		IN LINE				
Alignment		4 STROKE				
Cycle	nana (in)	130 (5.1)				
Bore	mm (in)		157 (6.2)			
Stroke	mm (in)		TURBOCHARGED AIR TO AIR CHARGE COOLED			
Induction Cooling Mathed		WATER	O AIR CHARGE COOLED			
Cooling Method		ELECTRONIC				
Governing Class		ISO 8528 G2				
Governing Class		16.3:1				
Compression Ratio	L (au in)	12.5 (762.8)				
Displacement	L (cu. in)	2.77 (9465)				
Moment of Inertia:	kg m² (lb/in²)	24				
Voltage Ground		Negative				
		70				
Battery Charger Amps Engine Weight Dry	kg (lb)	1301 (2868)				
Engine Weight Wet	kg (lb)	1351 (2978)				
Liigine weight wet	kg (ID)	1331 (2370)				
Engine Performa	ance Data	50 Hz	60 Hz			
Engine Speed	rpm		1800			
Gross Engine Power Prir	me kW (hp)		373.4 (501)			
Gross Engine Power Sta	ndby kW (hp)		406.5 (545)			
BMEP Prime	kPa (psi)		1991 (288.8)			
BMEP Standby	kPa (psi)		2168 (314.4)			

Maximum Allowable Back Pressure:

Exhaust Gas Flow: Prime

Exhaust Gas Flow: Standby

Exhaust Gas Temperature: Prime

Exhaust Gas Temperature: Standby

kPa (in Hg)

m³/min (cfm)

m³/min (cfm)

°C (°F)

°C (°F)



10 (3) 67.5 (2384)

74.5 (2631)

618.2 (1145) 680 (1256)

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/h	r)				
50 Hz Standby	l/hr (US gal/h		-			
60 Hz Prime	l/hr (US gal/h		88.1 (23.3)	80.4 (21.2)	61.4 (16.2)	44.5 (11.8)
60 Hz Standby	l/hr (US gal/h		-	88.1 (23.3)	66.5 (17.6)	47.6 (12.6)
(Based on diesel fuel with a			to BS2869 classA2,E	N590		
Air System			50	Hz	60 Hz	
Air Filter Type:					Non Canister	
Combustion Air Flow Pr	rime	m³/min (cfm)			23.8 (840)	
Combustion Air Flow St	andby	m³/min (cfm)			25.7 (908)	
Max. Combustion Air In	take Restriction	kPa			6.4 (25.7)	
Cooling System			50	Hz	60 Hz	
Cooling System Capacit	ty	l (US gal)	'		45.2 (11.9))
Water Pump Type:					Centrifugal	
Heat Rejected to Water	& Lube Oil: Prime	kW (Btu/min)		137.5 (7819)		
Heat Rejected to Water	& Lube Oil: Standb	y kW (Btu/min)	1	148.9 (8468)		58)
Heat Radiation to Room	n*: Prime	kW (Btu/min)			65.6 (3731)
Heat Radiation to Room	n*: Standby	kW (Btu/min)	1		70.6 (2713	3)
Radiator Fan Load:		kW (hp)			19 (25.5)	
Radiator Cooling Airflov	v:	m³/min (cfm))		538.2 (190	006)
External Restriction to C		Pa (in H2O)			125 (0.5)	
*: Heat radiated from engir Designed to operate in am Contact your local FG Wilso	nbient conditions up		e conditions.			
Lubrication Syst	em				5 5 11 0	
Oil Filter Type:					Eco, Full flow	
Total Oil Capacity:	I (US gal)				40 (10.6)	
Oil Pan Capacity:	l (US gal)				38 (10)	
Oil Type:					API CH4 SAE15W-4	10
Oil Cooling Method:					WATER	
Exhaust System			50	Hz	60 Hz	
					10 (0)	



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

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)	
Radiant Heat: 60 Hz	kW (Btu/min)	23.3 (1325)

Alternator Performance Data 50 Hz:

Voltage Code

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

Alternator Performance Data 60 Hz							
		480/277 V	380/220 V			440/254 V	
Voltage Code		240/139 V				220/127 V	
Motor Starting Capability*	kVA	1117	747			1005	
Short Circuit Capacity**	%	300	300	300	300	300	
Reactances	Xd	3.341	4.528			3.723	
	X'd	0.12	0.163			0.133	
	X"d	0.11	0.149			0.123	

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	Output Ratings 50 Hz						
		Prime	9	Standby			
Voltage Code	kVA	kW	kVA	kW			
415/240V							
400/230V							
380/220V							
230/115V							
220/127V							
220/110V							
200/115V							
240V							
230V							
220V							
Output Ratings	s 60 Hz						
		Prime		Standby			

	Prime		Standby	
Voltage Code	kVA	kW	kVA	kW
480/277V	400	320	437.5	350
440/254V	400	320	437.5	350
416/240V				
400/230V				
380/220V	362.5	290	398.8	319.04
240/139V	400	320	437.5	350
240/120V				
230/115V				
220/127V	400	320	437.5	350
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.