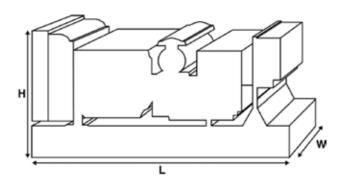


Output Ratings						
Voltage, Frequency		Prime	Standby			
400/230 V, 50 Hz	kVA kW	650 520	715 572			
	kVA					
	kW					

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	3900 (153.5)			
Width	mm	1461 (57.5)			
Height	mm	2156 (84.9)			
Weight (Dry)	kg	4454 (9819)			
Weight (Wet)	kg	4522 (9969)			

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 Performance Data						
Engine Make		Perkins				
Engine Model:		2806A-E18TAG2				
Alternator Make		FG Wilson				
Alternator Model:		FG33A560				
Control Panel:		FG100				
Base Frame:		Heavy Duty Fabricated St	eel			
Circuit Breaker Type:		3 Pole MCCB				
Frequency:		50 HZ	60 HZ			
Engine Speed: RPM	rpm	1500				
Fuel Tank Capacity:	litres (US gal)	1132 (299.04)				
Fuel Consumption Prime	litres (US gal)/hr	127.6 (33.7)				
Fuel Consumption Standby	litres (US gal)/hr	142 (37.5)				

Engine Technical Data

BMEP Standby	kPa (psi)	2770 (401.9)	
BMEP Prime	kPa (psi)	2576 (373.7)	
Gross Engine Power Stan	dby kW (hp)	628 (842)	
Gross Engine Power Prim	e kW (hp)	584 (783)	
Engine Speed	rpm	1500	
Engine Performa	nce Data	50 Hz 60 Hz	
Engine Weight Wet	kg (lb)	2158 (4758)	
Engine Weight Dry	kg (lb)	2050 (4519)	
Battery Charger Amps		70	
Ground		Negative	
Voltage		24	
Moment of Inertia:	kg m² (lb/in²)	7.05 (24091)	
Displacement	L (cu. in)	18.1 (1104.5)	
Compression Ratio		14.5:1	
Governing Class		ISO 8528 G2	
Governing Type		ELECTRONIC	
Cooling Method		WATER	
Induction		TURBOCHARGED AIR TO AIR CHARGE COOLED	
Stroke	mm (in)	183 (7.2)	
Bore	mm (in)	145 (5.7)	
Cycle		4 STROKE	
Alignment		IN LINE	
No. of Cylinders		6	



Fuel System					
Fuel Filter Type:			Eco Replaceable	Element	
Recommended Fuel:			Class A2 Diesel		
Fuel Consumption at		110 % Load	100 % Load	75 % Load	50 % Load
50 Hz Prime:	l/hr (US gal/hr)	142 (37.5)	127.6 (33.7)	94.8 (25)	66 (17.4)
50 Hz Standby	l/hr (US gal/hr)	-	142 (37.5)	104 (27.5)	71.5 (18.9)
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 0.86 and conforming to BS2869 classA2,EN590

Air System		50 Hz	60 Hz	
Air Filter Type:			Non Canister	
Combustion Air Flow Prime	m³/min (cfm)	37 (1307)		
Combustion Air Flow Standby	m³/min (cfm)	40 (1413)		
Max. Combustion Air Intake Restriction	<pa< td=""><td>6.4 (25.7)</td><td></td><td></td></pa<>	6.4 (25.7)		
Cooling System		50 Hz	60 Hz	
Cooling System Capacity	l (US gal)	68.5 (18.1)		
Water Pump Type:			Centrifugal	
Heat Rejected to Water & Lube Oil: Prime	kW (Btu/min)	202 (11488)		
Heat Rejected to Water & Lube Oil: Standby	/ kW (Btu/min)	219 (12454)		
Heat Radiation to Room*: Prime	kW (Btu/min)	69.3 (3941)		
Heat Radiation to Room*: Standby	kW (Btu/min)	76.1 (4328)		
Radiator Fan Load:	kW (hp)	9 (12.1)		
Radiator Cooling Airflow:	m³/min (cfm)	373.2 (13179)		
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 System				
Oil Filter Type:		Eco, Full flow		
Total Oil Capacity:	l (US gal)	62 (16.4)		
Oil Pan Capacity:	l (US gal)	53 (14)		
Oil Type:		API CH4 / CI4		
Oil Cooling Method:		WATER		

Exhaust System		50 Hz	60 Hz
Maximum Allowable Back Pressure:	kPa (in Hg)	6.9 (2)	
Exhaust Gas Flow: Prime	m³/min (cfm)	106 (3743)	
Exhaust Gas Flow: Standby	m³/min (cfm)	114 (4026)	
Exhaust Gas Temperature: Prime	°C (°F)	555 (1031)	
Exhaust Gas Temperature: Standby	°C (°F)	553 (1027)	



Alternator Physical Data	
No. of Bearings:	1
Insulation Class:	Н
Winding Pitch:	2/3
Winding Code	R16
Wires:	6
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)	31.1 (1769)
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	1763	1650	1488	
Short Circuit Capacity**	%	300	300	300	300
Reactances	Xd	2.327	2.504	2.775	
	X'd	0.106	0.114	0.126	
	X″d	0.089	0.089	0.099	

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 0.4 power factor.

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



Output Ratings 50 Hz

	Prime		Standby		
Voltage Code	kVA	kW	kVA	kW	
415/240V	650	520	715	572	
400/230V	650	520	715	572	
380/220V	650	520	715	572	
230/115V	650	520	715	572	
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

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.