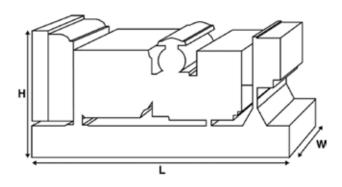


Output Ratings					
Voltage, Frequency		Prime	Standby		
400/230 V, 50 Hz	kVA kW	650 520	715 572		
	kVA				
	kW				

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: PowerWizard 1.1+					
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)	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

-			
No. of Cylinders		6	
Alignment		IN LINE	
Cycle		4 STROKE	
Bore	mm (in)	145 (5.7)	
Stroke	mm (in)	183 (7.2)	
Induction		TURBOCHARGED AIR TO AIR CHAR	GE COOLED
Cooling Method		WATER	
Governing Type		ELECTRONIC	
Governing Class		ISO 8528 G2	
Compression Ratio		14.5:1	
Displacement	L (cu. in)	18.1 (1104.5)	
Moment of Inertia:	kg m² (lb/in²)	7.05 (24091)	
Voltage		24	
Ground		Negative	
Battery Charger Amps		70	
Engine Weight Dry	kg (lb)	2050 (4519)	
Engine Weight Wet	kg (lb)	2158 (4758)	
Engine Performan	ice Data	50 Hz	60 Hz
Engine Speed	rpm	1500	
Gross Engine Power Prime	kW (hp)	584 (783)	
Gross Engine Power Stand	lby kW (hp)	628 (842)	
BMEP Prime	kPa (psi)	2577 (373.7)	
BMEP Standby	kPa (psi)	2771 (401.9)	



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 0.85 and conforming to BS2869 classA2,EN590

Air System		50 Hz	60 Hz	Z
Air Filter Type:			Non Canister	
Combustion Air Flow Prime n	n³/min (cfm)	37 (1307)		
Combustion Air Flow Standby n	n³/min (cfm)	40 (1413)		
Max. Combustion Air Intake Restriction k	Pa	6.4 (25.7)		
Cooling System		50 Hz	<u>60 H</u>	Ζ
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 / Cl4			
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.