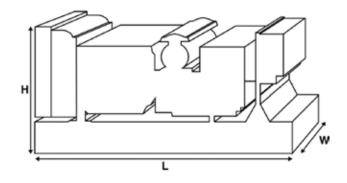


Output Ratings					
Voltage, Frequency		Prime	Standby		
400/230 V, 50 Hz	kVA kW	706 564.8	780 624		
	kVA kW				



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	4130 (162.6)		
Width	mm	1690 (66.5)		
Height	mm	2570 (101.2)		
Weight (Dry)	kg	4869 (10734)		
Weight (Wet)	kg	4979 (10977)		

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 Perforn	nance Data			
Engine Make		Perkins		
Engine Model:		2806A-E18TTAG4		
Alternator Make		Leroy Somer		
Alternator Model:		LL7224J		
Control Panel:		FG100		
Base Frame:		Heavy Duty Fabricated S	Steel	
Circuit Breaker Type:		3 Pole MCCB		
Frequency:		50 HZ	60 HZ	
Engine Speed: RPM	rpm	1500		
Fuel Tank Capacity:	litres (US gal)	1702 (449.62)		
Fuel Consumption Prime	litres (US gal)/hr	144.2 (38.1)		
Fuel Consumption Standby	litres (US gal)/hr	160.6 (42.4)		
Engine Technical Da	nta			
No. of Cylinders		6		
Alignment		IN LINE		
Cycle		4 STROKE		
	nm (in)	145 (5.7)		
Stroke n	nm (in)	183 (7.2)		
Induction		TURBOCHARGED AIR TO	O AIR CHARGE COOLED	
Cooling Method		WATER		
Governing Type		ELECTRONIC		
Governing Class		ISO 8528 G2		
Compression Ratio		14.0:1		
	(cu. in)	18.1 (1104.5)		
	g m² (lb/in²)	3.95 (13498)		
Voltage		24		
Ground		Negative		
Battery Charger Amps		50		
	g (lb)	2361 (5205)		
	g (lb)	2477 (5461)		
Engine Performance	e Data	50 Hz	60 Hz	
Engine Speed	rpm	1500		
Gross Engine Power Prime	kW (hp)	623 (835)		
Gross Engine Power Standb		685 (919)		
BMEP Prime	kPa (psi)	2749 (398.7)		
BMEP Standby	kPa (psi)	3023 (438.4)		



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)	160.6 (42.4)	144.2 (38.1)	108.1 (28.6)	75.8 (20)
50 Hz Standby	l/hr (US gal/hr)	-	160.6 (42.4)	119 (31.4)	82.3 (21.7)
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:			Non Ca	nister	
Combustion Air Flow Prime	m³/min (cfm)	52 (1836)			
Combustion Air Flow Standby	m³/min (cfm)	57 (2013)			
Max. Combustion Air Intake Restriction	kPa	3.7 (14.9)			

Cooling System		50 Hz	60 Hz	
Cooling System Capacity	l (US gal)	109.5 (28.9)		
Water Pump Type:			Centrifugal	
Heat Rejected to Water & Lube Oil: Prime	kW (Btu/min)	176 (10009)		
Heat Rejected to Water & Lube Oil: Standby	kW (Btu/min)	193 (10976)		
Heat Radiation to Room*: Prime	kW (Btu/min)	123.5 (7023)		
Heat Radiation to Room*: Standby	kW (Btu/min)	135.9 (7728)		
Radiator Fan Load:	kW (hp)	27.6 (37)		
Radiator Cooling Airflow:	m³/min (cfm)	853 (30123)		
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:		Spin-On, Full Flow		
Total Oil Capacity:	l (US gal)	68 (18)		
Oil Pan Capacity:	l (US gal)	56 (14.8)		
Oil Type:		API CH4 / CI4		
Oil Cooling Method:		WATER		

Exhaust System		50 Hz	60 Hz
Maximum Allowable Back Pressure:	kPa (in Hg)	8.5 (2.5)	
Exhaust Gas Flow: Prime	m³/min (cfm)	119 (4202)	
Exhaust Gas Flow: Standby	m³/min (cfm)	128 (4520)	
Exhaust Gas Temperature: Prime	°C (°F)	461 (862)	
Exhaust Gas Temperature: Standby	°C (°F)	465 (869)	

Alternator Physical Data



No. of Bearings:				1	
Insulation Class:				Н	
Winding Pitch:				2/3	
Winding Code				6S	
Wires:				6	
Ingress Protection Rating:				IP23	
Excitation System:				AREP	
AVR Model:				R450M	
dependant on voltage code selected					
Alternator Operating Data	a				
Overspeed: rpm				2250	
Voltage Regulation: (Steady state)	%			+/- 0.5	
Wave Form NEMA = TIF:				50	
Wave Form IEC = THF:	%			2	
Total Harmonic content LL/LN:	%			4	
Radio Interference:				EN61000-6	
Radiant Heat: 50 Hz	kW (Btu/min)			35.9 (2042)	
Radiant Heat: 60 Hz	kW (Btu/min)				
Radio Interference: Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Performance D	kW (Btu/min)				
rnator Performance D	vata 50 HZ:	415/240 V	400/230 V	380/220 V	
Voltage Code					

Alternator Performance Data 60 Hz

kVA

%

Xd

X'd

X"d

Voltage Code

Reactances

Motor Starting Capability*

Short Circuit Capacity**

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

2278

300

2.588

0.128

0.11

2128

300

2.786

0.137

0.11

1935

300

3.087

0.152

0.122

300

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	706	564.8	780	624
400/230V	706	564.8	780	624
380/220V	706	564.8	780	624
230/115V				
220/127V				
220/110V				
200/115V				
240V				
230V				
220V				
Output Ratings	60 Hz			
Output Natings	000112	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.