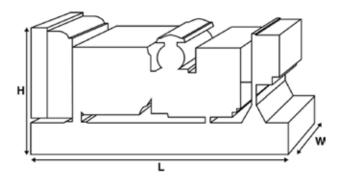


Output Ratings						
Voltage, Frequency		Prime	Standby			
400/230 V, 50 Hz	kVA kW	350 280	400 320			
	kVA					
	kW					



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	3075 (6779)			
Weight (Wet)	kg	3133 (6907)			

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



2206A-E13TAG2	
FG Wilson	
FGL50070	
FG100	
Heavy Duty Fabricated Steel	
3 Pole MCCB	
50 HZ	60 HZ
1500	
888 (234.58)	
69.5 (18.4)	
79 (20.9)	
6	
IN LINE	
4 STROKE	
130 (5.1)	
157 (6.2)	
TURBOCHARGED AIR TO AIR	CHARGE COOLED
WATER	
ELECTRONIC	
ISO 8528 G2	
16.3:1	
12.5 (762.8)	
2.77 (9465)	
24	
Negative	
70	
1301 (2868)	
1351 (2978)	
50 Hz	60 Hz
1500	
324.2 (435)	
368.4 (494)	
2075 (300.9)	
2073 (300.3)	
	FG Wilson FGL50070 FG100 Heavy Duty Fabricated Steel 3 Pole MCCB 50 HZ 1500 888 (234.58) 69.5 (18.4) 79 (20.9)  6 IN LINE 4 STROKE 130 (5.1) 157 (6.2) TURBOCHARGED AIR TO AIR WATER ELECTRONIC ISO 8528 G2 16.3:1 12.5 (762.8) 2.77 (9465) 24 Negative 70 1301 (2868) 1351 (2978)  50 Hz 1500 324.2 (435) 368.4 (494)



<b>Fuel System</b>					
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)	79 (20.9)	69.5 (18.4)	52.9 (14)	36.1 (9.5)
50 Hz Standby	l/hr (US gal/hr)	-	79 (20.9)	60 (15.9)	40.9 (10.8)
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)	21.3 (752)			
Combustion Air Flow Standby	m³/min (cfm)	23.6 (833)			
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)	113.5 (6455)		
Heat Rejected to Water & Lube Oil: Standby	kW (Btu/min)	128.5 (7308)		
Heat Radiation to Room*: Prime	kW (Btu/min)	44.7 (2542)		
Heat Radiation to Room*: Standby	kW (Btu/min)	55.7 (3168)		
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)		

<sup>\*:</sup> 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:	I (US gal)	40 (10.6)			
Oil Pan Capacity:	l (US gal)	38 (10)			
Oil Type:		API CH4 SAE15W-40			
Oil Cooling Method:		WATER			

<b>Exhaust System</b>		50 Hz	60 Hz
Maximum Allowable Back Pressure:	kPa (in Hg)	10 (3)	
Exhaust Gas Flow: Prime	m³/min (cfm)	56.6 (1999)	
Exhaust Gas Flow: Standby	m³/min (cfm)	64.8 (2288)	
Exhaust Gas Temperature: Prime	°C (°F)	573 (1063)	
Exhaust Gas Temperature: Standby	°C (°F)	630 (1166)	



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:					SHUNT		
AVR Model:					R150		
dependant on voltage code selected							
Alternator Operating	g Data						
Overspeed: rpm					2250		
Voltage Regulation: (Steady s	tate)	%			+/- 1.0		
Wave Form NEMA = TIF:				50			
Wave Form IEC = THF:		%	2				
Total Harmonic content LL/LN	N:	%	2.5				
Radio Interference:			EN61000-6				
Radiant Heat: 50 Hz		kW (Btu/min)		23.5 (1336)			
Radiant Heat: 60 Hz		kW (Btu/min)					
Alternator Performa	nce Da	ata 50 Hz:					
Voltage Code			415/240 V	400/230 V	380/220 V		
Motor Starting Capability*	kVA		710	639	545		
Short Circuit Capacity**	%		270	270	270	270	
Reactances	Xd		2.71	2.91	3.227		
	X'd		0.129	0.139	0.154		
	Λu						

270

0.197

270

0.164

270

0.178

270

0.147

Reactances shown are applicable to prime ratings.

Voltage Code

Reactances

Motor Starting Capability\*

Short Circuit Capacity\*\*

kVA

%

Xd X'd X"d 270

0.123

<sup>\*</sup>Based on 30% voltage dip at 0.6 power factor.

<sup>\*\*</sup> With optional independant excitation system (PMG / AUX winding)



Output Ratings 50 Hz								
		Prime		Standby				
Voltage Code	kVA	kW	kVA	kW				
415/240V	350	280	400	320				
400/230V	350	280	400	320				
380/220V	350	280	385	308				
230/115V								
220/127V								
220/110V								
200/115V								
240V								
230V								
220V								
Output Ratings	60 Hz							
- Output Hatings		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								





D	ealer Cor	itact Deta	ils			

# **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.