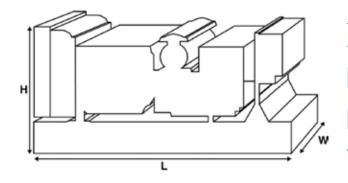


Output Ratings				
Voltage, Frequency		Prime	Standby	
230 V, 50 Hz	kVA kW	36 36	40 40	
	kVA			
	kW			



Ratings at 1 power factor.

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



Dimensions and Weights		
Length	mm	1680 (66.1)
Width	mm	760 (29.9)
Height	mm	1330 (52.4)
Weight (Dry)	kg	758 (1671)
Weight (Wet)	kg	771 (1700)

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

BMEP Standby

kPa (psi)



Ratings and Perfor	mance Data			
Engine Make	,			
Engine Model:		1103C-33TG3		
Alternator Make		FG Wilson		
Alternator Model:		FGL20080-M		
Control Panel:		FG100		
Base Frame:		Heavy Duty Fabricated	Steel	
Circuit Breaker Type:		3 Pole MCCB		
Frequency:		50 HZ	60 HZ	
Engine Speed: RPM	rpm			
Fuel Tank Capacity:	litres (US gal)	145 (38.3)		
Fuel Consumption Prime	litres (US gal)/hr	10.4 (2.7)		
Fuel Consumption Standb	by litres (US gal)/hr	11.6 (3.1)		
Engine Technical D)ata			
No. of Cylinders				
Alignment				
Cycle				
	mm (in)			
	mm (in)			
Induction				
Cooling Method				
Governing Type				
Governing Class				
Compression Ratio				
·	L (cu. in)			
Moment of Inertia:	kg m² (lb/in²)			
Voltage				
Ground				
Battery Charger Amps				
Engine Weight Dry	kg (lb)			
Engine Weight Wet	kg (lb)			
Engine Performan	nce Data	50 Hz	60 Hz	
Engine Speed	rpm			
Gross Engine Power Prime				
Gross Engine Power Standby kW (hp)				
BMEP Prime	kPa (psi)			
DIATE C. II	10 ()			



Fuel System							
Fuel Filter Type:							
Recommended Fuel:							
Fuel Consumption at			110 % Loa	ad	100 % Load	75 % Load	50 % Load
50 Hz Prime:	I/hr (US gal/l	nr)	11.6 (3.1)		10.4 (2.7)	7.9 (2.1)	5.6 (1.5)
50 Hz Standby	I/hr (US gal/l	nr)	-		11.6 (3.1)	8.7 (2.3)	6.1 (1.6)
60 Hz Prime	l/hr (US gal/l	nr)					
60 Hz Standby	l/hr (US gal/l	nr)	-				
(Based on diesel fuel with	a specific gravity of	and conforming to)				
Air System				50 Hz		60 Hz	
Air Filter Type:				•			
Combustion Air Flow F	Prime	m³/min (cfm)		2.8 (99)			
Combustion Air Flow S	Standby	m³/min (cfm)		2.8 (99)			
Max. Combustion Air I	ntake Restriction	kPa		6.6 (26.5)			
Cooling System				50 Hz		60 Hz	
Cooling System Capac		l (US gal)		12.8 (3.4)			
Water Pump Type:						Centrifugal	
Heat Rejected to Wate	r & Lube Oil: Prime	kW (Btu/mir	n)	24.6 (139	9)		
Heat Rejected to Water & Lube Oil: Standby kW (Btu/min		n)	27.4 (155	8)			
Heat Radiation to Room*: Prime kW (Btu/min		n)	11.5 (654)			
Heat Radiation to Room	m*: Standby	kW (Btu/mir	n)	12.9 (734)		
Radiator Fan Load:		kW (hp)		0.5 (0.7)			
Radiator Cooling Airflo	ow:	m³/min (cfn	n)	74.4 (262	7)		

External Restriction to Cooling Airflow:
*: 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.

Pa (in H2O)

Lubrication System

Oil Filter Type:

Total Oil Capacity: I (US gal)
Oil Pan Capacity: I (US gal)

Oil Type:

Oil Cooling Method:

Exhaust System		50 Hz	60 Hz
Maximum Allowable Back Pressure:	kPa (in Hg)	12 (3.5)	
Exhaust Gas Flow: Prime	m³/min (cfm)	6.9 (244)	
Exhaust Gas Flow: Standby	m³/min (cfm)	7.7 (272)	
Exhaust Gas Temperature: Prime	°C (°F)	520 (968)	
Exhaust Gas Temperature: Standby	°C (°F)	580 (1076)	

120 (0.5)



Alternator Physical Data					
No. of Bearings:				1	
Insulation Class:				Н	
Winding Pitch:				2/3	
Winding Code				М	
Wires:				3	
Ingress Protection Rating:				IP23	
Excitation System:				SHUNT	
AVR Model:				R121	
dependant on voltage code selected					
Alternator Operating Date	ta				
Overspeed: rpm				2250	
Voltage Regulation: (Steady state)	%		+/- 1.0		
Wave Form NEMA = TIF:		100			
Wave Form IEC = THF:	%	2			
Total Harmonic content LL/LN:	%	3.5			
Radio Interference:		EN61000-6			
Radiant Heat: 50 Hz	kW (Btu/min)	3.9 (222)			
Radiant Heat: 60 Hz	kW (Btu/min)				
Alternator Performance I	Data 50 Hz·				
Atternator renormance i	Jata 30 112.	240 V	230 V	220 V	
Voltage Code					
Motor Starting Capability* kVA		88	85	81	
Short Circuit Capacity** %		270	270	270	270
Reactances Xd		1.614	1.757	1.92	
X'd		0.163	0.177	0.193	
X"d		0.088	0.088	0.097	

Alternator Performance Data 60 Hz

Voltage Code

Motor Starting Capability*	kVA		0	0	0	
Short Circuit Capacity**	%	270	270	270	270	270
Reactances	Xd		0	0	0	
	X'd		0	0	0	
	X"d		0	0	0	

Reactances shown are applicable to prime ratings.

^{*}Based on 30% voltage dip at 0.9 power factor.

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



Output Ratings	5 50 Hz			
		Prime		Standby
Voltage Code	kVA	kW	kVA	kW
415/240V				
400/230V				
380/220V				
230/115V				
220/127V				
220/110V				
200/115V				
240V	36	36	40	40
230V	36	36	40	40
220V	36	36	40	40
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.