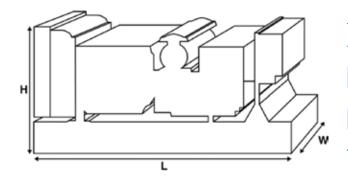


Output Ratings				
Voltage, Frequency		Prime	Standby	
400/230 V, 50 Hz	kVA kW	30 24	33 26.4	
	kVA			
	kW			



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	1570 (61.8)	
Width	mm	760 (29.9)	
Height	mm	1231 (48.5)	
Weight (Dry)	kg	660 (1455)	
Weight (Wet)	kg	673 (1484)	

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:		1103A-33G1	
Alternator Make		FG Wilson	
Alternator Model:		FGL20030	
Control Panel:		FG100	
Base Frame:		Heavy Duty Fabricated Steel	
Circuit Breaker Type:		3 Pole MCB	
Frequency:		50 HZ	60 HZ
Engine Speed: RPM	rpm	1500	1800
Fuel Tank Capacity:	litres (US gal)	71 (18.76)	
Fuel Consumption Prime	litres (US gal)/hr	6.9 (1.8)	
Fuel Consumption Standby	litres (US gal)/hr	7.7 (2)	
Engine Technical Da	ta		
No. of Cylinders		3	
Alignment		IN LINE	
Cycle		4 STROKE	
	nm (in)	105 (4.1)	
	nm (in)	127 (5)	
Induction		NATURALLY ASPIRATED	
Cooling Method		WATER	
Governing Type		MECHANICAL	
Governing Class		ISO 8528 G2	
Compression Ratio		19.25:1	
Displacement L	(cu. in)	3.3 (201.4)	
Moment of Inertia: k	g m² (lb/in²)	1.14 (3896)	
Voltage		12	
Ground		Negative	
Battery Charger Amps		65	
Engine Weight Dry k	g (lb)	341 (752)	
Engine Weight Wet k	g (lb)	348 (767)	
Engine Performanc	e Data	50 Hz	60 Hz
Engine Speed	rpm	1500	1800
Gross Engine Power Prime	kW (hp)	28.2 (38)	33.2 (45)
Gross Engine Power Standb		31 (42)	36.5 (49)
BMEP Prime	kPa (psi)	684 (99.2)	669 (97.3)
	4 /	752 (109)	



Fuel System					
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)	7.7 (2)	6.9 (1.8)	5.2 (1.4)	3.8 (1)
50 Hz Standby	l/hr (US gal/hr)	-	7.7 (2)	5.7 (1.5)	4.1 (1.1)
60 Hz Prime	l/hr (US gal/hr)				
60 Hz Standby	I/hr (US gal/hr)	-			

(Based on diesel fuel with a specific gravity of 0.84 and conforming to BS2869 classA2,EN590 $\,$

Air System		50 Hz 60 Hz			
Air Filter Type:		Replaceable Element			
Combustion Air Flow Prime	m³/min (cfm)	2.2 (76)			
Combustion Air Flow Standby	m³/min (cfm)	2.2 (76)			
Max. Combustion Air Intake Restriction	kPa	6.5 (26.1)			

Cooling System		50 Hz	60 Hz	
Cooling System Capacity	l (US gal)	10.2 (2.7)	'	
Water Pump Type:			Centrifugal	
Heat Rejected to Water & Lube Oil: Prime	kW (Btu/min)	16 (910)		
Heat Rejected to Water & Lube Oil: Standby	kW (Btu/min)	18 (1024)		
Heat Radiation to Room*: Prime	kW (Btu/min)	8.5 (483)		
Heat Radiation to Room*: Standby	kW (Btu/min)	9.8 (557)		
Radiator Fan Load:	kW (hp)	0.3 (0.4)		
Radiator Cooling Airflow:	m³/min (cfm)	62.6 (2211)		
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:	I (US gal)	8.3 (2.2)	
Oil Pan Capacity:	l (US gal)	7.8 (2.1)	
Oil Type:		API CG4 / CH4 15W-40	
Oil Cooling Method:		WATER	

Exhaust System		50 Hz	60 Hz
Maximum Allowable Back Pressure:	kPa (in Hg)	8 (2.4)	
Exhaust Gas Flow: Prime	m³/min (cfm)	5.7 (201)	
Exhaust Gas Flow: Standby	m³/min (cfm)	5.8 (205)	
Exhaust Gas Temperature: Prime	°C (°F)	500 (932)	
Exhaust Gas Temperature: Standby	°C (°F)	520 (968)	

Alternator Physical Data



No. of Bearings:		1
Insulation Class:		Н
Winding Pitch:		2/3
Winding Code		6P/6S
Wires:		4
Ingress Protection Rating:		IP23
Excitation System:		SHUNT
AVR Model:		R120
Alternator Operating Data	i	2250
Overspeed: rpm	<u> </u>	2250
Voltage Regulation: (Steady state)	%	
voltage negalation. (Steady State)	% 0	+/- 0.5
Wave Form NEMA = TIF:	⁷ /0	+/- 0.5 50
	% %	
Wave Form NEMA = TIF:		50
Wave Form NEMA = TIF: Wave Form IEC = THF:	%	50 2
Wave Form NEMA = TIF: Wave Form IEC = THF: Total Harmonic content LL/LN:	%	50 2 2

Alternator Performance Data 50 Hz:						
		415/240 V	400/230 V	380/220 V	220/127 V	
Voltage Code						
			200/115 V			
Motor Starting Capability*	kVA	49	46	42	54	
Short Circuit Capacity**	%	270	270	270	270	
Reactances	Xd	2.44	2.63	2.909	2.17	
	X'd	0.141	0.152	0.168	0.13	
	X"d	0.077	0.077	0.085	0.06	

Alternator Performance Data 60 Hz

Voltage Code

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

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)

220/110V

208/120V

240/120

220/110



Output Ratings	50 Hz			
		Prime		Standby
Voltage Code	kVA	kW	kVA	kW
415/240V	30	24	33	26.4
400/230V	30	24	33	26.4
380/220V	30	24	33	26.4
230/115V	30	24	33	26.4
220/127V	30	24	33	26.4
220/110V	30	24	33	26.4
200/115V	30	24	33	26.4
240V				
230V				
220V				
Output Ratings	60 Hz			
<u> </u>		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				





De	ealer Conta	act 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.