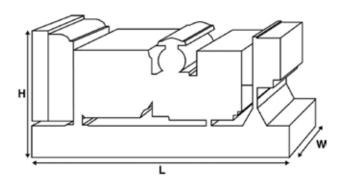


Output Ratings					
Voltage, Frequency		Prime	Standby		
400/230 V, 50 Hz	kVA	30	33		
	kW	24	26.4		
480/277V, 60 Hz	kVA	33.8	37.5		
	kW	27.04	30		

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	1565 (61.6)		
Width	mm	860 (33.9)		
Height	mm	1229 (48.4)		
Weight (Dry)	kg	643 (1418)		
Weight (Wet)	kg	656 (1446)		

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



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Ratings and Perform	nance Data				
Engine Make		Perkins			
Engine Model:		1103A-33G1			
Alternator Make		Leroy Somer			
Alternator Model:		LL1514F			
Control Panel:		FG100			
Base Frame:		Heavy Duty Fabricated S	teel		
Circuit Breaker Type:		3 Pole MCB/MCCB			
Frequency:		50 HZ	60 HZ		
Engine Speed: RPM	rpm	1500	1800		
Fuel Tank Capacity:	litres (US gal)				
Fuel Consumption Prime	litres (US gal)/hr	7 (1.8)	8.1 (2.1)		
Fuel Consumption Standby	litres (US gal)/hr	7.7 (2)	9 (2.4)		
Engine Technical Da	ta				
No. of Cylinders		3			
Alignment		IN LINE			
Cycle		4 STROKE			
	nm (in)	105 (4.1)			
	nm (in)	127 (5)	127 (5)		
Induction		NATURALLY ASPIRATED	NATURALLY ASPIRATED		
Cooling Method		WATER			
Governing Type		MECHANICAL			
Governing Class		ISO 8528 G2			
Compression Ratio		19.25:1			
	(cu. in)	3.3 (201.4)			
	$g m^2 (lb/in^2)$	1.14 (3896)			
Voltage	g (,)	12			
Ground		Negative			
Battery Charger Amps		65			
	g (lb)	341 (752)			
	g (lb)	348 (767)			
Engine Performanc		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	y kW (hp)	31 (42)	36.5 (49)		
BMEP Prime	kPa (psi)	684 (99.2)	669 (97.3)		
BMEP Standby	kPa (psi)	752 (109)	736 (107)		



Fuel System					
Fuel Filter Type:			Replaceable Elei	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)	7 (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)	9 (2.4)	8.1 (2.1)	6.2 (1.6)	4.7 (1.2)
60 Hz Standby	l/hr (US gal/hr)	-	9 (2.4)	6.8 (1.8)	5 (1.3)

(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)	2.6 (92)		
Combustion Air Flow Standby	m³/min (cfm)	2.2 (76)	2.6 (91)		
Max. Combustion Air Intake Restriction	kPa	6.5 (26.1)	6.5 (26.1)		
Cooling System		50 Hz	60 Hz		
Cooling System Capacity	l (US gal)	10.2 (2.7)	10.2 (2.7)		
Water Pump Type:			Centrifugal		
Heat Rejected to Water & Lube Oil: Prime	kW (Btu/min)	16 (910)	18 (1024)		
Heat Rejected to Water & Lube Oil: Standby	/ kW (Btu/min)	18 (1024)	22 (1251)		
Heat Radiation to Room*: Prime	kW (Btu/min)	8 (455)	8 (455)		
Heat Radiation to Room*: Standby	kW (Btu/min)	9.3 (529)	9.7 (345)		
Radiator Fan Load:	kW (hp)	0.3 (0.4)	0.53 (0.7)		
Radiator Cooling Airflow:	m³/min (cfm)	62.6 (2211)	84.8 (2995)		
External Restriction to Cooling Airflow:	Pa (in H2O)	125 (0.5)	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: I (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)	10 (3)
Exhaust Gas Flow: Prime	m³/min (cfm)	5.7 (201)	6.4 (226)
Exhaust Gas Flow: Standby	m³/min (cfm)	5.8 (205)	6.6 (233)
Exhaust Gas Temperature: Prime	°C (°F)	500 (932)	520 (968)
Exhaust Gas Temperature: Standby	°C (°F)	520 (968)	530 (986)



Alternator Physical Data	
No. of Bearings:	1
Insulation Class:	Н
Winding Pitch:	2/3
Winding Code	6
Wires:	12
Ingress Protection Rating:	IP23
Excitation System:	SHUNT
AVR Model:	R220
* dependant on voltage code selected	

Alternator Operating Data

Overspeed: rpm		2250
Voltage Regulation: (Steady state)	%	+/- 0.5
Wave Form NEMA = TIF:		50
Wave Form IEC = THF:	%	2
Total Harmonic content LL/LN:	%	2
Radio Interference:		EN61000-6
Radiant Heat: 50 Hz	kW (Btu/min)	3.3 (188)
Radiant Heat: 60 Hz	kW (Btu/min)	3.7 (210)

Alternator Performance Data 50 Hz:

		415/240 V	400/230 V	380/220 V	220/127 V
Voltage Code			230/115 V	220/110 V	
			200/115 V		
Motor Starting Capability*	kVA	72	68	63	78
Short Circuit Capacity**	%	0	0	0	0
Reactances	Xd	2.298	2.474	2.741	2.045
	X′d	0.143	0.153	0.17	0.127
	X″d	0.077	0.077	0.085	0.063

Alternator Performance Data 60 Hz

/ literinator r errorina	ance Data ou	1.1.44				
		480/277 V	380/220 V	240/120 V		440/254 V
Voltage Code		240/139 V	220/110 V	208/120 V		220/127 V
Motor Starting Capability*	kVA	78	55	63	59	69
Short Circuit Capacity**	%	0	0	0	0	0
Reactances	Xd	2.323	3.706	3.092	3.345	2.764
	X'd	0.144	0.23	0.192	0.207	0.171
	X″d	0.072	0.115	0.096	0.104	0.086

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	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				

Output Ratings 60 Hz

220V

		Prime		Standby
Voltage Code	kVA	kW	kVA	kW
480/277V	33.8	27	37.5	30
440/254V	33.8	27	37.5	30
416/240V				
400/230V				
380/220V	33.8	27	37.4	29.92
240/139V	33.8	27	37.5	30
240/120V	33.8	27.04	37.5	30
230/115V				
220/127V	33.8	27.04	37.5	30
220/110V	33.8	27.04	37.4	29.92
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.