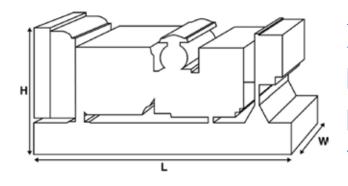


Output Ratings				
Voltage, Frequency		Prime	Standby	
400/230 V, 50 Hz	kVA kW	60 48	6552	
480/277V, 60 Hz	kVA kW	68.8 55.04	75 60	



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	1680 (66.1)	
Width	mm	760 (29.9)	
Height	mm	1330 (52.4)	
Weight (Dry)	kg	839 (1850)	
Weight (Wet)	kg	852 (1878)	

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



Engine Make	formance Data	Perkins			
Engine Model:		1103A-33TG2			
Alternator Make		Marelli MJB 200 MA4 FG100 Heavy Duty Fabricated Steel			
Alternator Model:					
Control Panel:					
Base Frame:					
Circuit Breaker Type:		3 Pole MCB/MCCB			
Frequency:		50 HZ	60 HZ		
Engine Speed: RPM	rpm	1500	1800		
Fuel Tank Capacity:	litres (US gal)	145 (38.3)			
Fuel Consumption Prir		13.7 (3.6)	16.3 (4.3)		
Fuel Consumption Sta		15 (4)	18 (4.8)		
Engine Technica	l Data				
No. of Cylinders		3			
Alignment		IN LINE			
Cycle		4 STROKE			
Bore	mm (in)	105 (4.1)			
Stroke	mm (in)	127 (5)			
Induction		TURBOCHARGED			
Cooling Method		WATER			
Governing Type		MECHANICAL			
Governing Class		ISO 8528 G2			
Compression Ratio		17.25:1			
Displacement	L (cu. in)	3.3 (201.4)			
Moment of Inertia:	kg m² (lb/in²)	1.14 (3896)			
Voltage		12			
Ground		Negative			
Battery Charger Amps		65			
Engine Weight Dry	kg (lb)	341 (752)			
Engine Weight Wet	kg (lb)	348 (767)			
Engine Perform	ance Data	50 Hz	60 Hz		
Engine Speed	rpm	1500	1800		
Gross Engine Power Pr	ime kW (hp)	55 (74)	63.3 (85)		
Gross Engine Power St	andby kW (hp)	60.5 (81)	71.3 (96)		
BMEP Prime	kPa (psi)	1333 (193.4)	1279 (185.5)		
BMEP Standby	kPa (psi)	1467 (212.8)	1406 (209)		

60 Hz Standby



13.4 (3.5)

WATER

9.4 (2.5)

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:	I/hr (US gal/hr)	15 (4)	13.7 (3.6)	10.2 (2.7)	7.1 (1.9)
50 Hz Standby	I/hr (US gal/hr)	=	15 (4)	11 (2.9)	7.6 (2)
60 Hz Prime	l/hr (US gal/hr)	18 (4.8)	16.3 (4.3)	12.3 (3.2)	8.8 (2.3)

18 (4.8)

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

I/hr (US gal/hr)

Air System		50 Hz	60 Hz
Air Filter Type: Repla		Replaceable Element	
Combustion Air Flow Prime	m³/min (cfm)	3.8 (134)	4.7 (166)
Combustion Air Flow Standby	m³/min (cfm)	3.9 (138)	4.9 (173)
Max. Combustion Air Intake Restriction	kPa	8 (32.1)	8 (32.1)
Cooling System		50 Hz	60 Hz

Cooling System		50 Hz	60 Hz
Cooling System Capacity	l (US gal)	10.2 (2.7)	10.2 (2.7)
Water Pump Type:		Centrifug	al
Heat Rejected to Water & Lube Oil: Prime	kW (Btu/min)	35.2 (2002)	41 (2332)
Heat Rejected to Water & Lube Oil: Standby	kW (Btu/min)	37.7 (2144)	42.8 (2434)
Heat Radiation to Room*: Prime	kW (Btu/min)	15.5 (881)	17 (967)
Heat Radiation to Room*: Standby	kW (Btu/min)	17 (967)	18 (633)
Radiator Fan Load:	kW (hp)	1 (1.3)	1.7 (2.3)
Radiator Cooling Airflow:	m³/min (cfm)	110.4 (3899)	145.8 (5149)
External Restriction to Cooling Airflow:	Pa (in H2O)	125 (0.5)	125 (0.5)

^{*:} Heat radiated from engine and alternator

Oil Cooling Method:

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		

Exhaust System 50 Hz 60 Hz 10 (3) 15 (4.4) Maximum Allowable Back Pressure: kPa (in Hg) 10.1 (357) 11.8 (417) Exhaust Gas Flow: Prime m³/min (cfm) Exhaust Gas Flow: Standby m³/min (cfm) 10.4 (367) 12.5 (441) 557 (1035) 534 (993) Exhaust Gas Temperature: Prime °C (°F) Exhaust Gas Temperature: Standby °C (°F) 571 (1060) 564 (1047)



Alternator Physical	Dala					
No. of Bearings:					1	
Insulation Class:				ŀ	Н	
Winding Pitch:					2/3	
Winding Code				1	M0	
Wires:					12	
Ingress Protection Rating:				I	P23	
Excitation System:				(SHUNT	
AVR Model:				I	Mark V	
dependant on voltage code selected	d					
Alternator Operatin	ıg Data	1				
Overspeed: rpm					2250	
Voltage Regulation: (Steady	state)	%			+/- 1.0	
Wave Form NEMA = TIF:					50	
Wave Form IEC = THF:		%			2	
Total Harmonic content LL/L	_N:	%		2	2	
Radio Interference:		EN 55011				
Radio Interference:				[EN 55011	
		kW (Btu/min)			5 (341)	
Radiant Heat: 50 Hz		kW (Btu/min) kW (Btu/min)		(
Radiant Heat: 50 Hz Radiant Heat: 60 Hz		kW (Btu/min)		(5 (341)	
Radiant Heat: 50 Hz Radiant Heat: 60 Hz	ance Da	kW (Btu/min)			5 (341) 7 (398)	
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Performa	ance Da	kW (Btu/min)	415/240 V	400/230 V	5 (341) 7 (398) 380/220 V	220/127 V
Radiant Heat: 50 Hz Radiant Heat: 60 Hz	ance Da	kW (Btu/min)	415/240 V	400/230 V 230/115 V	5 (341) 7 (398)	220/127 V
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Performa Voltage Code		kW (Btu/min)		400/230 V 230/115 V 200/115 V	380/220 V 220/110 V	
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Performa Voltage Code Motor Starting Capability*	kVA	kW (Btu/min)	115	400/230 V 230/115 V 200/115 V	380/220 V 220/110 V	129
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Performa Voltage Code Motor Starting Capability* Short Circuit Capacity**	kVA %	kW (Btu/min)	115 300	400/230 V 230/115 V 200/115 V 107 300	380/220 V 220/110 V	129 300
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Performa Voltage Code Motor Starting Capability* Short Circuit Capacity**	kVA % Xd	kW (Btu/min)	115 300 3.22	400/230 V 230/115 V 200/115 V	380/220 V 220/110 V	129 300 2.86
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Performa Voltage Code Motor Starting Capability* Short Circuit Capacity**	kVA % Xd X'd	kW (Btu/min)	115 300	400/230 V 230/115 V 200/115 V 107 300	380/220 V 220/110 V 96 300	129 300
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Performa Voltage Code Motor Starting Capability*	kVA % Xd	kW (Btu/min)	115 300 3.22	400/230 V 230/115 V 200/115 V 107 300 3.46	380/220 V 220/110 V 96 300 3.83	129 300 2.86
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Performa Voltage Code Motor Starting Capability* Short Circuit Capacity** Reactances	kVA % Xd X'd X"d	kW (Btu/min) ata 50 Hz:	115 300 3.22 0.28	400/230 V 230/115 V 200/115 V 107 300 3.46 0.3	380/220 V 220/110 V 96 300 3.83 0.33	129 300 2.86 0.25
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Performa Voltage Code Motor Starting Capability* Short Circuit Capacity** Reactances	kVA % Xd X'd X"d	kW (Btu/min) ata 50 Hz:	115 300 3.22 0.28	400/230 V 230/115 V 200/115 V 107 300 3.46 0.3	380/220 V 220/110 V 96 300 3.83 0.33	129 300 2.86 0.25
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Performa Voltage Code Motor Starting Capability* Short Circuit Capacity** Reactances Alternator Performa	kVA % Xd X'd X"d	kW (Btu/min) ata 50 Hz: ata 60 Hz	115 300 3.22 0.28 0.121	400/230 V 230/115 V 200/115 V 107 300 3.46 0.3	380/220 V 220/110 V 96 300 3.83 0.33	129 300 2.86 0.25 0.1
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Performa Voltage Code Motor Starting Capability* Short Circuit Capacity** Reactances Alternator Performa Voltage Code	kVA % Xd X'd X"d	ata 50 Hz: ata 60 Hz 480/277 V	115 300 3.22 0.28 0.121	400/230 V 230/115 V 200/115 V 107 300 3.46 0.3 0.121	380/220 V 220/110 V 96 300 3.83 0.33	129 300 2.86 0.25 0.1
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Performation Voltage Code Motor Starting Capability* Short Circuit Capacity** Reactances Alternator Performation Voltage Code Motor Starting Capability*	kVA % Xd X'd X"d	ata 50 Hz: ata 60 Hz 480/277 V 240/139 V	380/220 V 220/110 V	400/230 V 230/115 V 200/115 V 107 300 3.46 0.3 0.121	380/220 V 220/110 V 96 300 3.83 0.33	129 300 2.86 0.25 0.1 440/254 V 220/127 V
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Performation Voltage Code Motor Starting Capability* Short Circuit Capacity** Reactances Alternator Performation Voltage Code Motor Starting Capability* Short Circuit Capacity**	kVA % Xd X'd X"d X"d	ata 50 Hz: ata 60 Hz 480/277 V 240/139 V	300 3.22 0.28 0.121 380/220 V 220/110 V	400/230 V 230/115 V 200/115 V 107 300 3.46 0.3 0.121 240/120 V 208/120 V	380/220 V 220/110 V 96 300 3.83 0.33 0.134	129 300 2.86 0.25 0.1 440/254 V 220/127 V
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Performa Voltage Code Motor Starting Capability* Short Circuit Capacity**	kVA % Xd X'd X"d ance Da	ata 50 Hz: ata 60 Hz 480/277 V 240/139 V 129 300	380/220 V 220/110 V	400/230 V 230/115 V 200/115 V 107 300 3.46 0.3 0.121 240/120 V 208/120 V	380/220 V 220/110 V 96 300 3.83 0.33 0.134	129 300 2.86 0.25 0.1 440/254 V 220/127 V

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	60	48	65	52	
400/230V	60	48	65	52	
380/220V	60	48	65	52	
230/115V	60	48	65	52	
220/127V	60	48	65	52	
220/110V	60	48	65	52	
200/115V	60	48	65	52	
240V					
230V					
220V					

Output Ratings	60 Hz			
		Prime		Standby
Voltage Code	kVA	kW	kVA	kW
480/277V	68.8	55	75	60
440/254V	68.8	55	75	60
416/240V				
400/230V				
380/220V	62.9	50.3	69.2	55.36
240/139V	68.8	55	75	60
240/120V	68.3	54.64	75	60
230/115V				
220/127V	68.8	55.04	75	60
220/110V	62.9	50.32	69.2	55.36
208/120V	68.3	54.64	75	60
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.