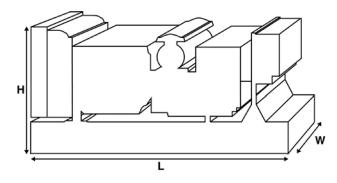


Output Ratings					
Voltage, Frequency		Prime	Standby		
	kVA	60	65		
400V, 50 Hz	kW	48	52		
4001/ 6011-	kVA	68.8	75		
480V, 60 Hz	kW	55	60		



Ratings at 0.8 power factor.

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



Dimensio	ns 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



<b>Ratings and Performa</b>	ince Data			
Engine Make		Perkins		
Engine Model:		1103A-33TG2		
Alternator Make		Marelli		
Alternator Model:		MJB 200 MA4		
Control Panel:		-		
Base Frame:		Heavy Duty Fabricated Steel		
Circuit Breaker Type:		3 Pole MCB / 3 Pole MCCB		
Frequency:		50 HZ	60 HZ	
Engine Speed: RPM	rpm	1500	1800	
Fuel Tank Capacity:	litres (US gal)	145 (38.3)		
Fuel Consumption Prime	litres (US gal)	13.7 (3.6)	16.3 (4.3)	
Fuel Consumption Standby	litres (US gal)	15.0 (4.0)	18.0 (4.8)	

## **Engine Technical Data**

No. of Cylinders		3	
Alignment		In Line	
Cycle		4 Stroke	
Bore	mm (in)	105.0 (4.1)	
Stroke	mm (in)	127.0 (5.0)	
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 Performan	ce Data	50 Hz	60 Hz
Engine Speed	rpm	1500	1800
Gross Engine Power Prime	kW (hp)	55.0 (74.0)	63.3 (85.0)
Gross Engine Power Stand	by kW (hp)	60.5 (81.0)	69.6 (93.0)
BMEP Prime	kPa (psi)	1333.0 (193.4)	1279.0 (185.5)
BMEP Standby	kPa (psi)	1467.0 (212.8)	1407.0 (204.0)



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)	15.0 (4.0)	13.7 (3.6)	10.2 (2.7)	7.1 (1.9)
50 Hz Standby	l/hr (US gal/hr)	-	15.0 (4.0)	11.0 (2.9)	7.6 (2.0)
60 Hz Prime	l/hr (US gal/hr)	18.0 (4.8)	16.3 (4.3)	12.3 (3.2)	8.8 (2.3)
60 Hz Standby	l/hr (US gal/hr)	-	18.0 (4.8)	13.4 (3.5)	9.4 (2.5)

(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 r	m³/min (cfm)	3.8 (134)	4.7 (166)
Combustion Air Flow Standby r	n³/min (cfm)	3.9 (138)	4.9 (173)
Max. Combustion Air Intake Restriction	(Pa	8.0 (32.1)	8.0 (32.1)
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)	35.2 (2002)	41.0 (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)	15.2 (864)	17.1 (972)
Heat Radiation to Room*: Standby	kW (Btu/min)	17.0 (967)	18.0 (1024)
Radiator Fan Load:	kW (hp)	1.0 (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

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:	(US gal)		8.3 (2.2)		
Oil Pan Capacity:	(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 P	ressure: kPa (in Hg)	10.0 (3.0)	15.0 (4.4)		
Exhaust Gas Flow: Prime	m³/min (cfm)	10.1 (357)	11.8 (417)		
Exhaust Gas Flow: Standby	m³/min (cfm)	10.4 (367)	12.5 (441)		
Exhaust Gas Temperature: Pr	rime °C (°F)	557 (1035)	534 (993)		
Exhaust Gas Temperature: St	tandby °C (°F)	571 (1060)	564 (1047)		



<b>Alternator Physical Data</b>	a				
No. of Bearings:				1	
Insulation Class:				Н	
Winding Pitch:				2/3	
Winding Code				MO	
Wires:				12	
Ingress Protection Rating:				IP23	
Excitation System:				SHUNT	
AVR Model:				Mark V	
<b>Alternator Operating D</b>	ata				
Overspeed: rpm				2250	
Voltage Regulation: (Steady state)				+/- 1.0%	
Wave Form NEMA = TIF:				50	
Wave Form IEC = THF:				2.0%	
Total Harmonic content LL/LN:				2.0%	
Radio Interference:				EN 55011	
Radiant Heat: 50 Hz	kW (Btu/min)			6.0 (341)	
Radiant Heat: 60 Hz	kW (Btu/min)			7.0 (398)	
				7.0 (390)	
Alternator Performance	e Data 50 Hz:				
		415/240V	400/230V	380/220V	220/127V
Voltage Code			230/115V	220/110V	
			200/115V		

Motor Starting Capability*	kVA	74	74	62	87
Short Circuit Capacity	%	300	300	300	300
Reactances	Xd	3.220	3.460	3.830	2.860
	X'd	0.280	0.300	0.330	0.250
	X″d	0.121	0.121	0.134	0.100

## Alternator Performance Data 60 Hz

Alternator i criorina	nice Duta ou	1.144				
		480/277V	380/220V	240/120V		440/254V
Voltage Code		240/139V	220/110V	208/120V		220/127V
Motor Starting Capability*	kVA	62	50	50	-	62
Short Circuit Capacity	%	300	300	300	300	300
Reactances	Xd	3.310	3.660	4.410	-	3.940
	X′d	0.290	0.420	0.380	-	0.340
	X″d	0.116	0.169	0.154	-	0.137

Reactances shown are applicable to prime ratings.

\*Based on 30% voltage dip at 0 power factor.



### **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	55.4
240/139V	68.8	55	75	60
240/120V	68.3	54.6	75	60
230/115V	-	-	-	-
220/127V	68.8	55	75	60
220/110V	62.9	50.3	6932	5545.6
208/120V	68.3	54.6	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.

In line with our policy of continuous product development, we reserve the right to change specification without notice.