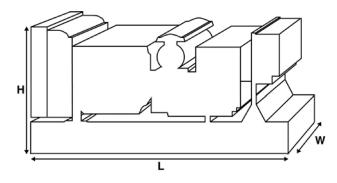


Output Ratings					
Voltage, Frequency		Prime	Standby		
400V, 50 Hz	kVA	80	88		
	kW	64	70.4		
4001/ 60 11-	kVA	90	100		
480V, 60 Hz	kW	72	80		



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	1870 (73.6)		
Width	mm	840 (33.1)		
Height	mm	1333 (52.5)		
Weight (Dry)	kg	989 (2180)		
Weight (Wet)	kg	1002 (2209)		

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 Performa	ince Data			
Engine Make		Perkins		
Engine Model:		1104A-44TG2		
Alternator Make		Marelli		
Alternator Model:		MJB 200 LA4		
Control Panel:		-		
Base Frame:		Heavy Duty Fabricated Steel		
Circuit Breaker Type:		3 Pole MCCB		
Frequency:		50 HZ	60 HZ	
Engine Speed: RPM	rpm	1500	1800	
Fuel Tank Capacity:	litres (US gal)	180 (47.6)		
Fuel Consumption Prime	litres (US gal)	18.2 (4.8)	21.0 (5.5)	
Fuel Consumption Standby	litres (US gal)	20.1 (5.3)	23.2 (6.1)	

Engine Technical Data

No. of Cylinders		4		
Alignment		In Line		
Cycle		4 Stroke		
Bore r	nm (in)	105.0 (4.1)		
Stroke r	nm (in)	127.0 (5.0)		
Induction		Turbocharged		
Cooling Method		Water		
Governing Type		Mechanical		
Governing Class		ISO 8528 G2		
Compression Ratio		17.25:1		
Displacement	_ (cu. in)	4.4 (268.5)		
Moment of Inertia:	ag m² (lb/in²)	1.14 (3896)		
Voltage		12		
Ground		Negative		
Battery Charger Amps		65		
Engine Weight Dry k	(lb)	463 (1021)		
Engine Weight Wet	(lb)	485 (1069)		
Engine Performance	ce Data	50 Hz	60 Hz	
Engine Speed	rpm	1500	1800	
Gross Engine Power Prime	kW (hp)	73.4 (98.0)	84.5 (113.0)	
Gross Engine Power Standb	by kW (hp)	80.7 (108.0)	93.0 (125.0)	
BMEP Prime	kPa (psi)	1335.0 (193.6)	1280.0 (185.7)	
BMEP Standby	kPa (psi)	1468.0 (212.9)	1409.0 (204.4)	



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)	20.1 (5.3)	18.2 (4.8)	13.6 (3.6)	9.5 (2.5)
50 Hz Standby	l/hr (US gal/hr)	-	20.1 (5.3)	14.9 (3.9)	10.3 (2.7)
60 Hz Prime	l/hr (US gal/hr)	23.2 (6.1)	21.0 (5.5)	16.0 (4.2)	11.4 (3.0)
60 Hz Standby	l/hr (US gal/hr)	-	23.2 (6.1)	17.4 (4.6)	12.3 (3.3)

(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 r	n³/min (cfm)	4.8 (170)	6.2 (219)
Combustion Air Flow Standby r	n³/min (cfm)	5.1 (180)	6.5 (230)
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)	13.0 (3.4)	13.0 (3.4)
Water Pump Type:			Centrifugal
Heat Rejected to Water & Lube Oil: Prime	kW (Btu/min)	46.0 (2616)	53.0 (3014)
Heat Rejected to Water & Lube Oil: Standby	kW (Btu/min)	51.0 (2900)	57.0 (3242)
Heat Radiation to Room*: Prime	kW (Btu/min)	19.6 (1115)	21.7 (1234)
Heat Radiation to Room*: Standby	kW (Btu/min)	21.6 (1228)	24.0 (1365)
Radiator Fan Load:	kW (hp)	1.0 (1.3)	1.7 (2.3)
Radiator Cooling Airflow:	m³/min (cfm)	121.2 (4280)	140.4 (4958)
External Restriction to Cooling Airflow:	Pa (in H2O)	120 (0.5)	120 (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)		8.0 (2.1)		
Oil Pan Capacity:	(US gal)		7.0 (1.8)		
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)	12.5 (441)	15.0 (530)		
Exhaust Gas Flow: Standby	m³/min (cfm)	13.3 (470)	15.9 (560)		
Exhaust Gas Temperature: P	rime °C (°F)	555 (1031)	535 (995)		
Exhaust Gas Temperature: S	tandby °C (°F)	580 (1076)	560 (1040)		



Alternator Physical I	Data				
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	
Alternator Operatin	g Data				
Overspeed: rpm				2250	
Voltage Regulation: (Steady s	tate)			+/- 0.5%	
Wave Form NEMA = TIF:				50	
Wave Form IEC = THF:				2.0%	
Total Harmonic content LL/LI	N:			2.0%	
Radio Interference:				EN 55011	
Radiant Heat: 50 Hz	kW (Btu/min)			7.6 (432)	
Radiant Heat: 60 Hz	kW (Btu/min)		9.0 (512)		
Alternator Performa	ince Data 50 Hz:				
		415/240V	400/230V	380/220V	220/127V
Voltage Code			230/115V	220/110V	
			200/115V		
Motor Starting Capability*	kVA	125	116	105	140
Short Circuit Capacity	%	_	_	_	_

Short Circuit Capacity	%	-	-	-	-
Reactances	Xd	2.880	3.100	3.430	2.560
	X'd	0.240	0.260	0.290	0.214
	X″d	0.099	0.099	0.110	0.082

Alternator Performance Data 60 Hz

nee Data oo					
	480/277V	380/220V	240/120V		440/254V
	240/139V	220/110V	208/120V		220/127V
kVA	139	87	105	-	117
%	-	-	-	-	-
Xd	2.910	3.100	3.780	-	3.380
X'd	0.240	0.350	0.320	-	0.280
X″d	0.093	0.135	0.121	-	0.108
	kVA % Xd X'd	480/277V 240/139V kVA 139 % - Xd 2.910 X'd 0.240	480/277V 380/220V 240/139V 220/110V kVA 139 87 % - - Xd 2.910 3.100 X'd 0.240 0.350	480/277V 380/220V 240/120V 240/139V 220/110V 208/120V kVA 139 87 105 % - - - Xd 2.910 3.100 3.780 X'd 0.240 0.350 0.320	480/277V 380/220V 240/120V 240/139V 220/110V 208/120V kVA 139 87 105 % - - - Xd 2.910 3.100 3.780 - X'd 0.240 0.350 0.320 -

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	80	64	88	70.4
400/230V	80	64	88	70.4
380/220V	80	64	88	70.4
230/115V	80	64	88	70.4
220/127V	80	64	86	68.8
220/110V	80	64	88	70.4
200/115V	80	64	88	70.4
240V	-	-	-	-
230V	-	-	-	-
220V	-	-	-	-

Output Ratings 60 Hz

	Prim	e	Sta	andby
Voltage Code	kVA	kW	kVA	kW
480/277V	90	72	100	80
440/254V	88	70.4	96.8	77.4
416/240V	-	-	-	-
400/230V	-	-	-	-
380/220V	82	65.6	90	72
240/139V	90	72	100	80
240/120V	88	70.4	96.8	77.4
230/115V	-	-	-	-
220/127V	88	70.4	96.8	77.4
220/110V	82	65.6	90	72
208/120V	88	70.4	96.8	77.4
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.