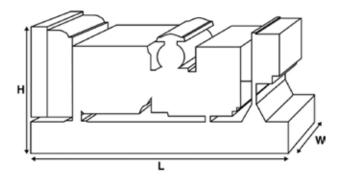


Output Ratings				
Voltage, Frequency		Prime	Standby	
400/230 V, 50 Hz	kVA kW	100 80	110 88	
	kVA kW			



Ratings at 0.8 power factor.

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



Dimension	Dimensions and Weights				
Length	mm	1980 (78)			
Width	mm	890 (35)			
Height	mm	1494 (58.8)			
Weight (Dry)	kg	1125 (2480)			
Weight (Wet)	kg	1142 (2518)			

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



D () ID (
Ratings and Perf	ormance Data	0.11				
Engine Make		Perkins				
Engine Model:		1104D-E44TAG2				
Alternator Make		Leroy Somer				
Alternator Model:		LL3114F				
Control Panel:		FG100				
Base Frame:		Heavy Duty Fabricated	Steel			
Circuit Breaker Type:		3 Pole MCCB				
Frequency:		50 HZ	60 HZ			
Engine Speed: RPM	rpm	1500				
Fuel Tank Capacity:	litres (US gal)	218 (57.59)				
Fuel Consumption Prim	ne litres (US gal)/hr	23.4 (6.2)				
Fuel Consumption Stan	ndby litres (US gal)/hr	24.6 (6.5)				
Engine Technical	Data					
No. of Cylinders		4				
Alignment		IN LINE				
Cycle		4 STROKE				
Bore	mm (in)	105 (4.1)				
Stroke	mm (in)	127 (5)				
Induction		TURBOCHARGED AIR TO	O AIR CHARGE COOLED			
Cooling Method		WATER				
Governing Type		ELECTRONIC				
Governing Class		ISO 8528 G2				
Compression Ratio		16.7:1				
Displacement	L (cu. in)	4.4 (268.4)				
Moment of Inertia:	kg m² (lb/in²)	1.324 (4524)				
Voltage		12				
Ground		Negative				
Battery Charger Amps		65				
Engine Weight Dry	kg (lb)	439 (968)				
Engine Weight Wet	kg (lb)	448 (988)				
J	3 ()					
Engine Performa	ance Data	50 Hz	60 Hz			
Engine Speed	rpm	1500				
Gross Engine Power Pri	me kW (hp)	95.8 (128)				
Gross Engine Power Sta		105.1 (141)				
BMEP Prime	kPa (psi)	1742 (252.7)				
BMEP Standby	kPa (psi)	1911 (277.2)				



Fuel System					
Fuel Filter Type:			Replaceable Eleme	nt	
Recommended Fuel:			Class A2 Diesel		
Fuel Consumption at		110 % Load	100 % Load	75 % Load	50 % Load
50 Hz Prime:	l/hr (US gal/hr)	24.6 (6.5)	23.4 (6.2)	19.5 (5.1)	14.6 (3.9)
50 Hz Standby	l/hr (US gal/hr)	-	24.6 (6.5)	20.7 (5.5)	15.6 (4.1)
60 Hz Prime	l/hr (US gal/hr)				
60 Hz Standby	l/hr (US gal/hr)	-			

(Based on diesel fuel with a specific gravity of 0.83 and conforming to BS2869 classA2,EN590 $\,$

Air System		50 Hz		60 Hz	
Air Filter Type:		Paper Element			
Combustion Air Flow Prime	m³/min (cfm)	6.4 (227)			
Combustion Air Flow Standby	m³/min (cfm)	6.7 (238)			
Max. Combustion Air Intake Restriction	kPa	5 (20.1)			

Cooling System		50 Hz	60 Hz
Cooling System Capacity	l (US gal)	17 (4.5)	
Water Pump Type:			Centrifugal
Heat Rejected to Water & Lube Oil: Prime	kW (Btu/min)	47.1 (2679)	
Heat Rejected to Water & Lube Oil: Standby	kW (Btu/min)	51.9 (2952)	
Heat Radiation to Room*: Prime	kW (Btu/min)	19.7 (1120)	
Heat Radiation to Room*: Standby	kW (Btu/min)	21.6 (1228)	
Radiator Fan Load:	kW (hp)	2.8 (3.8)	
Radiator Cooling Airflow:	m³/min (cfm)	201 (7098)	
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 Sys	tem	
Oil Filter Type:		Spin-on, Full flow
Total Oil Capacity:	I (US gal)	8.4 (2.2)
Oil Pan Capacity:	I (US gal)	6.9 (1.8)
Oil Type:		API CH4 15W-40
Oil Cooling Method:		WATER

Exhaust System		50 Hz	60 Hz
Maximum Allowable Back Pressure:	kPa (in Hg)	15 (4.4)	
Exhaust Gas Flow: Prime	m³/min (cfm)	16.4 (580)	
Exhaust Gas Flow: Standby	m³/min (cfm)	17.4 (614)	
Exhaust Gas Temperature: Prime	°C (°F)	657 (1215)	
Exhaust Gas Temperature: Standby	°C (°F)	675 (1247)	



Alternator Physical Data	1				
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:				R250	
dependant on voltage code selected					
Alternator Operating Da	nta				
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)			7.8 (444)	
Radiant Heat: 60 Hz	kW (Btu/min)				
Alternator Performance	Data 50 Hz:				
Voltage Code		415/240 V	400/230 V	380/220 V	
Motor Starting Capability* kVA		256	240	220	
Short Circuit Capacity** %		300	300	300	300
Reactances Xd		2.666	2.87	3.18	
X'd		0.12	0.129	0.143	
X″d		0.077	0.077	0.086	

Alternator Performance Data 60 Hz

Voltage Code

Motor Starting Capability*	kVA					
Short Circuit Capacity**	%	300	300	300	300	300
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)



Output Ratings	50 Hz				
		Prime		Standby	
Voltage Code	kVA	kW	kVA	kW	
415/240V	100	80	110	88	
400/230V	100	80	110	88	
380/220V	100	80	110	88	
230/115V					
220/127V					
220/110V					
200/115V					
240V					
230V					
220V					
Output Ratings	60 Hz				
		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					
220/110V					
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.