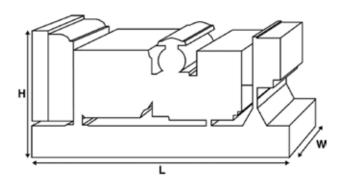


Output Ratings							
Voltage, Frequency		Prime	Standby				
400/230 V, 50 Hz	kVA kW	60 48	65 52				
	kVA	68.8	75				
480/277V, 60 Hz	kW	55.04	60				

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	767 (1691)			
Weight (Wet)	kg	779 (1717)			

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 Performance Data					
Engine Make		Perkins			
Engine Model:	ine Model:				
Alternator Make		Leroy Somer			
Alternator Model:		LL1514P			
Control Panel:		FG100			
Base Frame:		Heavy Duty Fabricated Steel			
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 Prime	litres (US gal)/hr	13.6 (3.6)	15.4 (4.1)		
Fuel Consumption Standby	litres (US gal)/hr	14.9 (3.9)	17 (4.5)		

Engine Technical Data

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 Performar	nce Data	50 Hz	60 Hz
Engine Speed	rpm	1500	1800
Gross Engine Power Prime	e kW (hp)	55 (74)	63.3 (85)
Gross Engine Power Stand	dby kW (hp)	60.5 (81)	71.3 (96)
BMEP Prime	kPa (psi)	1333 (193.4)	1279 (185.5)



Fuel System					
Fuel Filter Type:			Replaceable Eler	ment	
Recommended Fuel:			Class A2 Diesel	Class A2 Diesel	
Fuel Consumption at		110 % Load	100 % Load	75 % Load	50 % Load
50 Hz Prime:	l/hr (US gal/hr)	14.9 (3.9)	13.6 (3.6)	10.2 (2.7)	7.1 (1.9)
50 Hz Standby	l/hr (US gal/hr)	-	14.9 (3.9)	11 (2.9)	7.6 (2)
60 Hz Prime	l/hr (US gal/hr)	17 (4.5)	15.4 (4.1)	11.7 (3.1)	8.4 (2.2)
60 Hz Standby	l/hr (US gal/hr)	-	17 (4.5)	12.8 (3.4)	9 (2.4)

(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	m³/min (cfm)	3.9 (138)	4.9 (173)	
Max. Combustion Air Intake Restriction	<pa< td=""><td>8 (32.1)</td><td>8 (32.1)</td><td></td></pa<>	8 (32.1)	8 (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 (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)	15.3 (870)	17 (967)	
Heat Radiation to Room*: Standby	kW (Btu/min)	16.7 (950)	17 (632)	
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

Exhaust Gas Temperature: Standby

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.

°C (°F)

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	Pressure: kPa (in Hg)	10 (3)	15 (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: P	rime °C (°F)	557 (1035)	534 (993)				

571 (1060)

564 (1047)



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)	5.7 (324)
Radiant Heat: 60 Hz	kW (Btu/min)	6 (341)

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	145	138	128	158
Short Circuit Capacity**	%	0	0	0	0
Reactances	Xd	2.648	2.85	3.158	2.041
	X'd	0.136	0.146	0.162	0.105
	X″d	0.073	0.073	0.081	0.052

Alternator Performance Data 60 Hz

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		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	157	111	128	121	139
Short Circuit Capacity**	%	0	0	0	0	0
Reactances	Xd	2.723	3.726	3.425	3.534	3.241
	X'd	0.14	0.191	0.176	0.181	0.166
	X″d	0.07	0.096	0.088	0.091	0.083

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	52	41.6	57.2	45.76
220/110V	60	48	65	52
200/115V	60	48	65	52
240V				
230V				
220V				

Output Ratings 60 Hz

	Prime		C	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	59	47.2	64.9	51.92	
240/139V	68.8	55	75	60	
240/120V	65	52	71.5	57.2	
230/115V					
220/127V	68.8	55.04	75	60	
220/110V	59	47.2	64.9	51.92	
208/120V	65	52	71.5	57.2	
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.