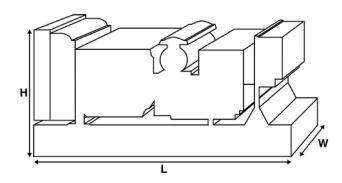


Output Ratings					
Voltage, Frequency		Prime	Standby		
400V, 50 Hz	kVA	1350	1500		
	kW	1080	1200		
kVA					
480V, 60 Hz	kW				

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	4888 (192.4)		
Width	mm	1895 (74.6)		
Height	mm	2455 (96.7)		
Weight (Dry)	kg	9247 (20386)		
Weight (Wet)	kg	9448 (20829)		

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 Perf	ormance Data		
Engine Make		 Perkins	
Engine Model:		4012-46TWG3A	
Alternator Make		Leroy Somer	
Alternator Model:		LL8224L	
Control Panel:		PowerWizard 1.1+	
Base Frame:		Heavy Duty Fabricated St	reel
Circuit Breaker Type:		3 Pole ACB-Option	
Frequency:		50 HZ	60 HZ
Engine Speed: RPM	rpm	1500	
Fuel Tank Capacity:	litres (US gal)	N/A (N/A)	
Fuel Consumption Prim		279.2 (73.8)	
Fuel Consumption Stan		313.4 (82.8)	
Engine Technical	 Data		
No. of Cylinders		12	
Alignment		VEE	
Cycle		4 STROKE	
Bore	mm (in)	160 (6.3)	
Stroke	mm (in)	190 (7.5)	
Induction		TURBOCHARGED	
Cooling Method		WATER	
Governing Type		ELECTRONIC	
Governing Class		ISO 8528	
Compression Ratio		13.0:1	
Displacement	L (cu. in)	45.8 (2797.5)	
Moment of Inertia:	kg m² (lb/in²)	19.3 (65951)	
Voltage	J , ,	24	
Ground		Negative	
Battery Charger Amps		40	
Engine Weight Dry	kg (lb)	4440 (9788)	
Engine Weight Wet	kg (lb)	4604 (10150)	
Engine Performa	ance Data	50 Hz	60 Hz
Engine Speed	rpm	1500	
Gross Engine Power Prir	·	1200 (1609)	
Gross Engine Power Sta		1314 (1762)	
BMEP Prime	kPa (psi)	2094 (303.7)	
BMEP Standby	kPa (psi)	2293 (332.6)	



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)	313.4 (82.8)	279.2 (73.8)	210.2 (55.5)	152.3 (40.2)
50 Hz Standby	l/hr (US gal/hr)	-	313.4 (82.8)	232 (61.3)	164.2 (43.4)
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 0.85 and conforming to BS2869 classA2,EN590 $\,$

Air System		50 Hz		60 Hz	
Air Filter Type:			Replace	eable Element	
Combustion Air Flow Prime	m³/min (cfm)	108 (3814)			
Combustion Air Flow Standby	m³/min (cfm)	114 (4026)			
Max. Combustion Air Intake Restriction	kPa	4 (16.1)			

Cooling System		50 Hz	60 Hz
Cooling System Capacity	l (US gal)	196 (51.8)	'
Water Pump Type:			Centrifugal
Heat Rejected to Water & Lube Oil: Prime	kW (Btu/min)	395 (22463)	
Heat Rejected to Water & Lube Oil: Standby	kW (Btu/min)	441 (25079)	
Heat Radiation to Room*: Prime	kW (Btu/min)	143.6 (8166)	
Heat Radiation to Room*: Standby	kW (Btu/min)	157.8 (8974)	
Radiator Fan Load:	kW (hp)	51 (68.4)	
Radiator Cooling Airflow:	m³/min (cfm)	1620 (57210)	
External Restriction to Cooling Airflow:	Pa (in H2O)	250 (1)	

^{*:} 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:	l (US gal)	177 (46.8)		
Oil Pan Capacity:	l (US gal)	157.5 (41.6)		
Oil Type:		API CH4 15W-40		
Oil Cooling Method:		WATER		

Exhaust System		50 Hz	60 Hz
Maximum Allowable Back Pressure:	kPa (in Hg)	5 (1.5)	
Exhaust Gas Flow: Prime	m³/min (cfm)	240 (8476)	
Exhaust Gas Flow: Standby	m³/min (cfm)	240 (8476)	
Exhaust Gas Temperature: Prime	°C (°F)	474 (885)	
Exhaust Gas Temperature: Standby	°C (°F)	474 (885)	



,	Data					
No. of Bearings:					1	
Insulation Class:					Н	
Winding Pitch:			2/3			
Winding Code					65	
Wires:					6	
Ingress Protection Rating:					IP23	
Excitation System:					AREP	
AVR Model:					R450M	
Alternator Operatir	ng 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:				3.5	
Radio Interference:			EN61000-6			
Radiant Heat: 50 Hz		kW (Btu/min)	61.8 (3515)			
Radiant Heat: 60 Hz		kW (Btu/min)				
Alternator Perform	ance Data	50 Hz:				
Alternator Perform						
Alternator Periorm			415/240 V	400/230 V	380/220 V	
Voltage Code			415/240 V	400/230 V	380/220 V	
Voltage Code	kVA		415/240 V 3312	400/230 V 3087	380/220 V 2798	
	kVA %					300
Voltage Code Motor Starting Capability*			3312	3087	2798	300
Voltage Code Motor Starting Capability* Short Circuit Capacity	%		3312 300	3087 300	2798 300	300
Voltage Code Motor Starting Capability* Short Circuit Capacity	% Xd		3312 300 3.386	3087 300 3.645	2798 300 4.039	300
Voltage Code Motor Starting Capability* Short Circuit Capacity Reactances	% Xd X'd X"d		3312 300 3.386 0.227	3087 300 3.645 0.245	2798 300 4.039 0.271	300
Voltage Code Motor Starting Capability* Short Circuit Capacity	% Xd X'd X"d	1 60 Hz	3312 300 3.386 0.227	3087 300 3.645 0.245	2798 300 4.039 0.271	300
Voltage Code Motor Starting Capability* Short Circuit Capacity Reactances Alternator Perform	% Xd X'd X"d	1 60 Hz	3312 300 3.386 0.227	3087 300 3.645 0.245	2798 300 4.039 0.271	300
Voltage Code Motor Starting Capability* Short Circuit Capacity Reactances	% Xd X'd X"d	ı 60 Hz	3312 300 3.386 0.227	3087 300 3.645 0.245	2798 300 4.039 0.271	300
Voltage Code Motor Starting Capability* Short Circuit Capacity Reactances Alternator Perform	% Xd X'd X"d	1 60 Hz	3312 300 3.386 0.227	3087 300 3.645 0.245	2798 300 4.039 0.271	300

Reactances shown are applicable to prime ratings.

Xd X'd X"d

Reactances

^{*}Based on 30% voltage dip at 0.4 power factor.



Output Ratings	5 50 Hz			
		Prime		Standby
Voltage Code	kVA	kW	kVA	kW
415/240V	1350	1080	1485	1188
400/230V	1350	1080	1500	1200
380/220V	1350	1080	1485	1188
230/115V				
220/127V				
220/110V				
200/115V				
240V				
230V				
220V				
Output Ratings	- 60 Hz			
Output natings	3 00 112	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.