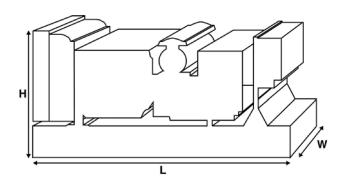


Output Ratings				
Voltage, Frequency		Prime	Standby	
400V, 50 Hz	kVA			
4000, 30 112	kW			
4001/6011=	kVA		1500	
480V, 60 Hz	kW		1200	



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	2450 (96.5)		
Weight (Dry)	kg	9246 (20384)		
Weight (Wet)	kg	9447 (20827)		

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 Per	formance Data		
Engine Make		Perkins	
Engine Model:		4012-46TWG3A	
Alternator Make		Leroy Somer	
Alternator Model:		LL8224P	
Control Panel:		PowerWizard 1.1+	
Base Frame:		Heavy Duty Fabricated S	Steel
Circuit Breaker Type:		3 Pole ACB-Option	
Frequency:		50 HZ	60 HZ
Engine Speed: RPM	rpm		1800
Fuel Tank Capacity:	litres (US gal)	N/A (N/A)	
Fuel Consumption Prir	me litres (US gal)		
Fuel Consumption Sta	ndby litres (US gal)		324 (85.6)
Engine Technica	Il Data	12	
No. of Cylinders			
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		24	
Ground		Negative	
Battery Charger Amps		40	
Engine Weight Dry	kg (lb)	4440 (9788)	
Engine Weight Wet	kg (lb)	4604 (10150)	
Engine Perform	ance Data	50 Hz	60 Hz
Engine Speed	rpm		1800
Gross Engine Power Pr	rime kW (hp)		1207 (1619)
Gross Engine Power St	andby kW (hp)		1321 (1771)
BMEP Prime	kPa (psi)		1755 (254.6)
BMEP Standby	kPa (psi)		1921 (278.6)

Exhaust Gas Temperature: Prime

Exhaust Gas Temperature: Standby

°C (°F)

°C (°F)



478 (892)

Fuel Filter Type:				-	Replaceable Eler	ment	
Recommended Fuel:					Class A2 Diesel	THE	
Fuel Consumption at			110 % Loa	ad	100 % Load	75 % Load	50 % Load
50 Hz Prime:	l/hr (US gal/hr)						
50 Hz Standby	l/hr (US gal/hr)		_				
60 Hz Prime	I/hr (US gal/hr)						
60 Hz Standby	l/hr (US gal/hr)		_		324 (85.6)		
(Based on diesel fuel with		and conforming	to BS2869 cla	assA2,EN590			
Air Cretore				F0.11-		60.11-	
Air System				50 Hz		60 Hz Replaceable Elemen	+
Air Filter Type: Combustion Air Flow F	Orimo	³ /min (cfm)				Neplaceable Lieffieri	· ·
Combustion Air Flow S		³ /min (cfm)				116 (4097)	
Max. Combustion Air I						110 (4097)	
IVIAX. COLLIDUSTION AIL I	TILAKE NESTITETION KI	<u> </u>					
Cooling System				50 Hz		60 Hz	
Cooling System Capac		l (US gal)				196 (51.8)	
Water Pump Type:					1	Centrifugal	
Heat Rejected to Wate	r & Lube Oil: Prime	kW (Btu/min))				
Heat Rejected to Wate	r & Lube Oil: Standby	kW (Btu/min))			480 (2729)	7)
Heat Radiation to Room*: Prime kW (Btu/min)					
Heat Radiation to Room*: Standby kW (Btu/min)			151 (5738)		
Radiator Fan Load:		kW (hp)				51 (68.4)	
Radiator Cooling Airflo	ow:	m³/min (cfm	m)			1770 (62507)	
External Restriction to	Cooling Airflow:	Pa (in H2O)				250 (1)	
*: Heat radiated from eng Designed to operate in a Contact your local FG Wil	mbient conditions up to		e conditions.				
Lubrication Sys	tem						
Oil Filter Type:	1.016					Spin-On, Full Flow	
Total Oil Capacity: I (US gal)					177 (46.8)		
Oil Pan Capacity:	· · ·					157.5 (41.6)	
Oil Cooling Mothed					API CH4 15W-40		
Oil Cooling Method:						WATER	
Exhaust System	1			50 Hz		60 Hz	
Maximum Allowable E	Back Pressure: kPa (in Hg)					
Exhaust Gas Flow: Prime m³/min (cfm)							
Exhaust Gas Flow: Standby m³/min (cfm)					250 (8829)		



Alternator Physical Data	1		
No. of Bearings:		1	
Insulation Class:		Н	
Winding Pitch:		2/3	
Winding Code		6S	
Wires:		6	
Ingress Protection Rating:		IP23	
Excitation System:		AREP	
AVR Model:		R450M	
Alternator Operating Da	ata		
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)		
Radiant Heat: 60 Hz	kW (Btu/min)	51 (2900)	
Alternator Performance	Data 50 Hz:		

Voltage Code

Motor Starting Capability*	kVA				
Short Circuit Capacity	%	300	300	300	300
Reactances	Xd				
	X'd				
	X"d				

Alternator Performance Data 60 Hz						
		480/277 V	380/220 V			440/254 V
Voltage Code						
Motor Starting Capability*	kVA	5087	3261			4316
Short Circuit Capacity	%	300	300	300	300	300
Reactances	Xd	2.758	4.4			3.282
	X'd	0.172	0.274			0.205
	X"d	0.096	0.153			0.114

Reactances shown are applicable to prime ratings.

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



Output Ratings	50 Hz			
		Prime	S	tandby
Voltage Code	kVA	kW	kVA	kW
415/240V				
400/230V				
380/220V				
230/115V				
220/127V				
220/110V				
200/115V				
240V				
230V				
220V				
Output Ratings	60 Hz			
- a ap a a mannigo		Prime	S	tandby
Voltage Code	kVA	kW	kVA	kW
480/277V			1500	1200
440/254V			1500	1200
416/240V				
400/230V				
380/220V			1500	1200
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.