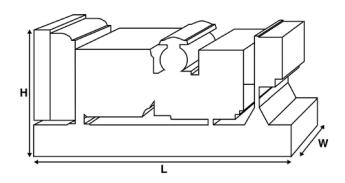


Output Ratings					
Voltage, Frequency	,	Prime	Standby		
400\/ 50 -	kVA	1700	1875		
400V, 50 Hz	kW	1360	1500		
480V, 60 Hz	kVA				
	kW				

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	5259 (207)		
Width	mm	2192 (86.3)		
Height	mm	2453 (96.6)		
Weight (Dry)	kg	10997 (24244)		
Weight (Wet)	kg	11207 (24707)		

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 Perfe	ormance Data				
Engine Make		Perkins	Perkins		
Engine Model:		4012-46TAG3A			
Alternator Make		Leroy Somer			
Alternator Model:		LL9324F			
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	1500			
Fuel Tank Capacity:	litres (US gal)	N/A (N/A)			
Fuel Consumption Prim	e litres (US gal)	349.7 (92.4)			
Fuel Consumption Stan	dby litres (US gal)	390.2 (103.1)			
Engine Technical	Data				
No. of Cylinders		12			
Alignment		VEE			
Cycle		4 STROKE			
Bore	mm (in)	160 (6.3)	160 (6.3)		
Stroke mm (in)		190 (7.5)	190 (7.5)		
Induction	nduction) AIR CHARGE COOLED		
Cooling Method		WATER	WATER		
Governing Type		ELECTRONIC	ELECTRONIC		
Governing Class		ISO 8528			
Compression Ratio		13.0:1			
Displacement	L (cu. in)	45.8 (2794.9)			
Moment of Inertia:	kg m² (lb/in²)	19.3 (65951)			
Voltage		24			
Ground		Negative			
Battery Charger Amps		40			
Engine Weight Dry	kg (lb)	4400 (9700)			
Engine Weight Wet	kg (lb)	4604 (10150)			
Engine Performa	ance Data	50 Hz	60 Hz		
Engine Speed	rpm	1500			
Gross Engine Power Prir	·	1500 (2012)			
Gross Engine Power Sta		1643 (2203)			
BMEP Prime	kPa (psi)	2618 (379.7)			
BMEP Standby	kPa (psi)	2868 (415.9)			



Fuel System					
Fuel Filter Type:			Replaceable Eler	nent	
Recommended Fuel:			Class A2 Diesel		
Fuel Consumption at		110 % Load	100 % Load	75 % Load	50 % Load
50 Hz Prime:	l/hr (US gal/hr)	390.2 (103.1)	349.7 (92.4)	259.9 (68.7)	182.5 (48.2)
50 Hz Standby	l/hr (US gal/hr)	=	390.2 (103.1)	286.4 (75.7)	197.5 (52.2)
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, class A2

Air System		50 Hz	60 Hz
Air Filter Type:		Replaceable Element	
Combustion Air Flow Prime	m³/min (cfm)	125 (4414)	
Combustion Air Flow Standby	m³/min (cfm)	135 (4767)	
Max. Combustion Air Intake Restriction	kPa	4 (16.1)	
			<u> </u>
Cooling System		50 Hz	60 Hz
Cooling System Capacity	l (US gal)	207 (54.7)	,
Water Pump Type:			Centrifugal
11 . D : . 1. W . 0.1 1 O:1 D :	kW (Btu/min)	510 (29003)	
Heat Rejected to Water & Lube Oil: Prime	KVV (Dea) Tilli)		
Heat Rejected to Water & Lube Oil: Prime Heat Rejected to Water & Lube Oil: Standle		625 (35543)	

193.7 (11016)

1920 (67804)

64 (85.8)

250 (1)

Heat Radiation to Room*: Standby

Radiator Fan Load:

Radiator Cooling Airflow:

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.

kW (Btu/min)

m³/min (cfm)

Pa (in H2O)

kW (hp)

Lubrication System				
Oil Filter Type:		Spin-On, Full Flow		
Total Oil Capacity:	l (US gal)	177 (46.8)		
Oil Pan Capacity:	l (US gal)	159 (42)		
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)	350 (12360)	
Exhaust Gas Flow: Standby	m³/min (cfm)	350 (12360)	
Exhaust Gas Temperature: Prime	°C (°F)	480 (896)	
Exhaust Gas Temperature: Standby	°C (°F)	480 (896)	

External Restriction to Cooling Airflow: *: Heat radiated from engine and alternator



Alternator Physical	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:					R449	
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/I	_N:		3.5			
Radio Interference:			EN61000-6			
Radiant Heat: 50 Hz		kW (Btu/min)	70.7 (4021)			
Radiant Heat: 60 Hz		kW (Btu/min)				
Altawasta y Dayfayya	D-1	- FO II				
Alternator Perform	ance Dat	a 50 HZ:	415/240 V	400/230 V	200/2201/	
Voltage Code			413/240 V	400/230 V	380/220 V	
Motor Starting Capability*	kVA		5086	4740	4295	
Short Circuit Capacity			200	200	300	300
	%		300	300		
Reactances	Xd		3.119	3.358	3.72	
Reactances	Xd X'd					
Reactances	Xd		3.119	3.358	3.72	
	Xd X'd X"d	- 60 11-	3.119 0.247	3.358 0.266	3.72 0.294	
	Xd X'd X"d	a 60 Hz	3.119 0.247	3.358 0.266	3.72 0.294	
Alternator Perform	Xd X'd X"d	a 60 Hz	3.119 0.247	3.358 0.266	3.72 0.294	
Alternator Perform	Xd X'd X"d	a 60 Hz	3.119 0.247	3.358 0.266	3.72 0.294	
Alternator Performation Voltage Code Motor Starting Capability*	Xd X'd X"d	a 60 Hz	3.119 0.247	3.358 0.266	3.72 0.294	

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	50 Hz				
		Prime Standby		Standby	
Voltage Code	kVA	kW	kVA	kW	
415/240V	1700	1360	1875	1500	
400/230V	1700	1360	1875	1500	
380/220V	1700	1360	1875	1500	
230/115V					
220/127V					
220/110V					
200/115V					
240V					
230V					
220V					
Output Ratings					
- Carparina III g		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.