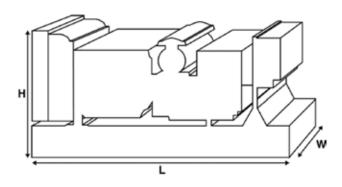


Standard Alternator

Output Ratings				
Voltage, Frequency		Prime	Standby	
400/230 V, 50 Hz	kVA kW	910 728	1000 800	
	kVA kW			

Ratings at 0.8 power factor.

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





Dimensior	ns and Weights	
Length	mm	4758 (187.3)
Width	mm	2094 (82.4)
Height	mm	2133 (84)
Weight (Dry)	kg	7089 (15629)
Weight (Wet)	kg	7398 (16310)

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 Performa	nce Data		
Engine Make		Perkins	
Engine Model:		4008TAG1A	
Alternator Make		MeccAlte	
Alternator Model:		FGM10030	
Control Panel:		DSE7410	
Base Frame:		Heavy Duty Channel	
Circuit Breaker Type:		Options Available	
Frequency:		50 HZ	60 HZ
Engine Speed: RPM	rpm	1500	
Fuel Tank Capacity:	litres (US gal)	N/A (N/A)	
Fuel Consumption Prime	litres (US gal)/hr	191.8 (50.7)	
Fuel Consumption Standby	litres (US gal)/hr	213.9 (56.5)	

Engine Technical Data

No. of Cylinders		8		
Alignment		IN LINE		
Cycle		4 STROKE		
Bore r	nm (in)	160 (6.3)		
Stroke r	nm (in)	190 (7.5)		
Induction		TURBOCHARGED AIR TO AIR CHAR	GE COOLED	
Cooling Method		WATER		
Governing Type		ELECTRONIC		
Governing Class		ISO 8528		
Compression Ratio		13.6:1		
Displacement	. (cu. in)	30.6 (1864.9)		
Moment of Inertia: k	g m² (lb/in²)	15.62 (53376)		
Voltage		24		
Ground		Negative		
Battery Charger Amps		40		
Engine Weight Dry k	ig (lb)	3250 (7165)		
Engine Weight Wet k	g (lb)	3428 (7557)		
Engine Performance	e Data	50 Hz	60 Hz	
Engine Speed	rpm	1500		
Gross Engine Power Prime	kW (hp)	798 (1070)		
Gross Engine Power Standb	y kW (hp)	876 (1175)		
BMEP Prime	kPa (psi)	2089 (303)		
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)	213.9 (56.5)	191.8 (50.7)	141.3 (37.3)	99.1 (26.2)
50 Hz Standby	l/hr (US gal/hr)	-	213.9 (56.5)	155.2 (41)	106.6 (28.2)
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)	69.4 (2451)		
Combustion Air Flow Standby r	m³/min (cfm)	74 (2613)		
Max. Combustion Air Intake Restriction	<pa< td=""><td>3.7 (14.9)</td><td></td><td></td></pa<>	3.7 (14.9)		
Cooling System		50 Hz	60 Hz	
Cooling System Capacity	l (US gal)	121 (32)		
Water Pump Type:			Centrifugal	
Heat Rejected to Water & Lube Oil: Prime	kW (Btu/min)	300 (17061)		
Heat Rejected to Water & Lube Oil: Standby	kW (Btu/min)	313 (17800)		
Heat Radiation to Room*: Prime	kW (Btu/min)	105.1 (5977)		
Heat Radiation to Room*: Standby	kW (Btu/min)	129.6 (7370)		
Radiator Fan Load:	kW (hp)	23 (30.8)		
Radiator Cooling Airflow:	m³/min (cfm)	989 (34926)		
External Restriction to Cooling Airflow:	Pa (in H2O)	250 (1)		

*: 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 System		
Oil Filter Type:		Spin-On, Full Flow
Total Oil Capacity:	l (US gal)	166 (43.9)
Oil Pan Capacity:	l (US gal)	153 (40.4)
Oil Type:		API CG4 15W-40
Oil Cooling Method:		WATER

Exhaust System		50 Hz	60 Hz
Maximum Allowable Back Pressure:	kPa (in Hg)	9.3 (2.7)	
Exhaust Gas Flow: Prime	m³/min (cfm)	183 (6463)	
Exhaust Gas Flow: Standby	m³/min (cfm)	183 (6463)	
Exhaust Gas Temperature: Prime	°C (°F)	422 (792)	
Exhaust Gas Temperature: Standby	°C (°F)	440 (824)	



Alternator Physical	Data					
No. of Bearings:					1	
Insulation Class:					Н	
Winding Pitch:					2/3	
Winding Code					T040SP3	
Wires:					12	
Ingress Protection Rating:					IP23	
Excitation System:					MAUX (auxiliary)	
AVR Model:					DER1/A	
dependant on voltage code selecte	d					
Alternator Operatir	ng Data	a				
Overspeed: rpm					2250	
Voltage Regulation: (Steady	state)	%			+/- 0.5	
Wave Form NEMA = TIF:					40	
Wave Form IEC = THF:		%			2	
Total Harmonic content LL/	LN:	%			3.3	
Radio Interference:					VDE 0875 G/N/K, EN	V61000-6-3, EN61000-6
Radiant Heat: 50 Hz		kW (Btu/min)			38.6 (2195)	
Radiant Heat: 60 Hz		kW (Btu/min)				
Alternator Perform	ance D	ata 50 Hz:				
			415/240 V	400/230 V	380/220 V	
Voltage Code						
Motor Starting Capability*	kVA		2196	2061	2899	
Short Circuit Capacity**	%		300	300	300	300
Reactances	Xd		4	4.31	5.42	
	X′d		0.15	0.16	0.2	
	X″d		0.075	0.075	0.094	
Alternator Perform	ance D	ata 60 Hz				
Voltage Code						
Motor Starting Capability*	kVA					
Short Circuit Capacity**	%	300	300	300	300	300
Reactances	Xd					

Reactances shown are applicable to prime ratings.

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

** With optional independant excitation system (PMG / AUX winding)

X'd X"d



Output Ratings 50 Hz Prime Standby Voltage Code kVA kW kVA kW 415/240V 910 728 1000 800 400/230V 910 728 1000 800 380/220V 910 728 1000 800 230/115V 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

The warranty for this product in prime applications 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.

Caterpillar (NI) Limited is the manufacturer of FG Wilson brand diesel generating sets, and our facilities manufacture products in the following locations: Brazil • China • India With headquarters in Northern Ireland, FG Wilson products are distributed through a Global Dealer Network. To contact your local Sales Office, please visit the FG Wilson website at www.fgwilson.com.

In line with our policy of continuous product development, we reserve the right to change specification without notice.