

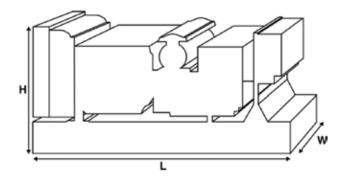
Standard Alternator

Output Rating	S		
Voltage, Frequency		Prime	Standby
400/230 V, 50 Hz	kVA kW	1010 808	1110 888
	kVA kW		



Ratings at 0.8 power factor.

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



Dimension	ns and Weights	
Length	mm	4850 (190.9)
Width	mm	2111 (83.1)
Height	mm	2132 (83.9)
Weight (Dry)	kg	7184 (15838)
Weight (Wet)	kg	7493 (16519)

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



	formance Data	Daylin -		
Engine Make		Perkins		
Engine Model:		4008TAG2A MeccAlte		
Alternator Make				
Alternator Model:		FGM10060		
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 Prin	me litres (US gal)/hr	214 (56.5)		
Fuel Consumption Sta	ndby litres (US gal)/hr	240 (63.4)		
Engine Technica	Il Data			
No. of Cylinders		8		
Alignment		IN LINE		
Cycle		4 STROKE		
Bore	mm (in)	160 (6.3)		
Stroke	mm (in)	190 (7.5)		
Induction		TURBOCHARGED AIR TO	O AIR CHARGE COOLED	
Cooling Method		WATER		
Governing Type		ELECTRONIC		
Governing Class		ISO 8528		
Compression Ratio		13.6:1		
Displacement	L (cu. in)	30.6 (1864.9)		
Moment of Inertia:	kg m² (lb/in²)	15.62 (53376)		
Voltage		24		
Ground		Negative		
Battery Charger Amps		40		
Engine Weight Dry	kg (lb)	3250 (7165)		
Engine Weight Wet	kg (lb)	3428 (7557)		
Engine Perform	ance Data	50 Hz	60 Hz	
Engine Speed	rpm	1500		
Gross Engine Power Pr	rime kW (hp)	899 (1206)		
Gross Engine Power St	andby kW (hp)	985 (1321)		
BMEP Prime	kPa (psi)	2353 (341.3)		
BMEP Standby	kPa (psi)	2579 (374)		



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)	240 (63.4)	214 (56.5)	156.5 (41.3)	108.9 (28.8)
50 Hz Standby	l/hr (US gal/hr)	-	240 (63.4)	172.7 (45.6)	117.6 (31.1)
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)	75 (2649)		
Combustion Air Flow Standby	m³/min (cfm)	80.5 (2843)		
Max. Combustion Air Intake Restriction	kPa	3.7 (14.9)		
Cooling System		50 Hz	60 Hz	

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)	116.3 (6614)		
Heat Radiation to Room*: Standby	kW (Btu/min)	139.9 (7956)		
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.

Lu	brica	tion	Sys	tem

Oil Filter Type:		Spin-On, Full Flow
Total Oil Capacity:	I (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)	8 (2.4)	
Exhaust Gas Flow: Prime	m³/min (cfm)	200 (7063)	
Exhaust Gas Flow: Standby	m³/min (cfm)	200 (7063)	
Exhaust Gas Temperature: Prime	°C (°F)	438 (820)	
Exhaust Gas Temperature: Standby	°C (°F)	465 (869)	



Alternator Physica	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	ed					
Alternator Operati	ng Data	1				
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	161000-6-3, EN61000-6
Radiant Heat: 50 Hz		kW (Btu/min)			39.9 (2269)	
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						
	kVA		3133	3369	3733	
Motor Starting Capability*			300	300	300	300
Motor Starting Capability* Short Circuit Capacity**	%					
	% Xd		3.2	3.77	4.18	
Short Circuit Capacity**			0.15	0.18	0.2	

300

300

300

300

Reactances shown are applicable to prime ratings.

Motor Starting Capability*

Short Circuit Capacity**

Reactances

kVA

%

Xd X'd X"d 300

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

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



Output Ratings	50 Hz			
		Prime		Standby
Voltage Code	kVA	kW	kVA	kW
415/240V	1010	808	1110	888
400/230V	1010	808	1110	888
380/220V	1010	808	1110	888
230/115V				
220/127V				
220/110V				
200/115V				
240V				
230V				
220V				
Outrout Potings	6011-			
Output Ratings	60 HZ	Prime		Standby
Voltage Code	kVA	kW	kVA	kW
480/277V	IXV/ X	IXVV	IXV/ X	1/4 A
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.