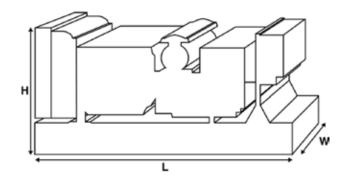


Output Ratings						
Voltage, Frequency		Prime	Standby			
400/230 V, 50 Hz	kVA	150	165			
	kW	120	132			
	kVA					
	kW					



Ratings at 0.8 power factor.

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



Canopied Dimensions				
Length	mm	3503		
Width	mm	1120		
Height	mm	1652		

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 Perfor	mance Data				
Engine Make		Perkins			
Engine Model:		1106A-70TAG2			
Alternator Make		FG Wilson			
Alternator Model:		FGL30100			
Base Frame:		Heavy Duty Fabricated S	Steel		
Circuit Breaker Type:		3 Pole MCCB			
Frequency:		50 HZ	60 HZ		
Engine Speed: RPM	rpm	1500	1800		
Fuel Tank Capacity:	litres	302			
Fuel Consumption Prime	litres (US gal)/hr	32.4 (8.6)			
Fuel Consumption Standb	y litres (US gal)/hr	35.1 (9.3)			
Engine Technical D	ata				
No. of Cylinders		6			
Alignment		IN LINE			
Cycle		4 STROKE			
Bore	mm (in)	nm (in) 105 (4.1)			
Stroke mm (in)		135 (5.3)			
Induction		TURBOCHARGED AIR TO) AIR CHARGE COOLED		
Cooling Method		WATER			
Governing Type		MECHANICAL			
Governing Class		ISO 8528 G2			
Compression Ratio		16.0:1			
Displacement	L (cu. in)	7 (427.8)			
Moment of Inertia:	kg m² (lb/in²)	1.53 (5228)			
Voltage		12			
Ground		Negative			
Battery Charger Amps		85			
Engine Weight Dry	kg (lb)	788 (1737)			
Engine Weight Wet	kg (lb)	822 (1812)			
Engine Performan	 ce Data	50 Hz	60 Hz		
Engine Speed	rpm	1500	1800		
Gross Engine Power Prime		136 (182)	155.4 (208)		
Gross Engine Power Stand		149.1 (200)	171.8 (230)		
BMEP Prime	kPa (psi)	1551 (225)	1477 (214.2)		
BMEP Standby	kPa (psi)	1701 (246.7)	1633 (236.8)		
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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)	35.1 (9.3)	32.4 (8.6)	25 (6.6)	16.7 (4.4)
50 Hz Standby	l/hr (US gal/hr)	-	35.1 (9.3)	27.3 (7.2)	18.4 (4.9)
60 Hz Prime	l/hr (US gal/hr)				
60 Hz Standhy	l/hr (LIS 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:		Paper Element			
Combustion Air Flow Prime	m³/min (cfm)	10 (351)			
Combustion Air Flow Standby	m³/min (cfm)	10.6 (374)			
Max. Combustion Air Intake Restriction	kPa	5 (20.1)			

Cooling System		50 Hz	60 Hz
Cooling System Capacity	l (US gal)	21 (5.5)	•
Water Pump Type:			Centrifugal
Heat Rejected to Water & Lube Oil: Prime	kW (Btu/min)	69.1 (3930)	
Heat Rejected to Water & Lube Oil: Standby	kW (Btu/min)	75.7 (4305)	
Heat Radiation to Room*: Prime	kW (Btu/min)	20.2 (1149)	
Heat Radiation to Room*: Standby	kW (Btu/min)	22.3 (1268)	
Radiator Fan Load:	kW (hp)	4.5 (6)	
Radiator Cooling Airflow:	m³/min (cfm)	259.2 (9154)	
External Restriction to Cooling Airflow:	Pa (in H2O)	125 (0.5)	

^{*:} 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)	16.5 (4.4)		
Oil Pan Capacity:	l (US gal)	14.9 (3.9)		
Oil Type:		API CH4 / CI4 15W-40		
Oil Cooling Method:		WATER		

Exhaust System		50 Hz	60 Hz
Maximum Allowable Back Pressure:	kPa (in Hg)	6 (1.8)	
Exhaust Gas Flow: Prime	m³/min (cfm)	23.9 (843)	
Exhaust Gas Flow: Standby	m³/min (cfm)	25.3 (895)	
Exhaust Gas Temperature: Prime	°C (°F)	471 (880)	
Exhaust Gas Temperature: Standby	°C (°F)	471 (880)	



Alternator Physical Data	
No. of Bearings:	1
Insulation Class:	Н
Winding Pitch:	2/3
Winding Code	6P/6S
Wires:	4
Ingress Protection Rating:	IP23
Excitation System:	SHUNT
AVR Model:	R120

^{*} dependant on voltage code selected

Alternator Operating 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:	%	2
Radio Interference:		EN61000-6
Radiant Heat: 50 Hz	kW (Btu/min)	10.1 (574)
Radiant Heat: 60 Hz	kW (Btu/min)	0 ()

Alternator Performance Data 50 Hz:								
		415/240 V	400/230 V	380/220 V	220/127 V			
Voltage Code								
			200/115 V					
Motor Starting Capability*	kVA	233	219	199	259			
Short Circuit Capacity**	%	270	270	270	270			
Reactances	Xd	3.34	3.6	3.984	2.67			
	X'd	0.158	0.17	0.189	0.127			
	X"d	0.102	0.102	0.113	0.076			

Alternator Performance Data 60 Hz

Voltage Code

Motor Starting Capability*	kVA					
Short Circuit Capacity**	%	270	270	270	270	270
Reactances	Xd					
	X'd					
	X"d					

Reactances shown are applicable to prime ratings.

^{*}Based on 30% voltage dip at 0.6 power factor.

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

220/110V

208/120V

240/120220/110



Output Ratings	5 50 Hz				
		Prime		Standby	
Voltage Code	kVA	kW	kVA	kW	
415/240V	150	120	165	132	
400/230V	150	120	165	132	
380/220V	150	120	165	132	
230/115V	150	120	165	132	
220/127V	150	120	165	132	
220/110V	150	120	165	132	
200/115V	150	120	165	132	
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					





Dealer Conta	act 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.