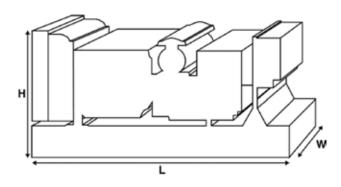


Output Ratings					
Voltage, Frequency		Prime	Standby		
400/230 V, 50 Hz kVA kW		150 120	165 132		
	kVA kW				

Ratings at 0.8 power factor.

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





Dimensions and Weights				
Length	mm	2450 (96.5)		
Width	mm	1010 (39.8)		
Height	mm	1544 (60.8)		
Weight (Dry)	kg	1575 (3472)		
Weight (Wet)	kg	1596 (3519)		

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 Performance Data					
Engine Make		Perkins			
Engine Model:		1106AA-70TAG2			
Alternator Make		FG Wilson			
Alternator Model:	FG26A120				
Control Panel:		FG100			
Base Frame:		Heavy Duty Fabricated Steel			
Circuit Breaker Type:		3 Pole MCB			
Frequency:		50 HZ	60 HZ		
Engine Speed: RPM	rpm	1500			
Fuel Tank Capacity:	litres (US gal)	327 (86.38)			
Fuel Consumption Prime	litres (US gal)/hr	32.5 (8.6)			
Fuel Consumption Standby	litres (US gal)/hr	36.1 (9.5)			

### **Engine Technical Data**

No. of Cylinders		6	
Alignment		IN LINE	
Cycle		4 STROKE	
Bore n	nm (in)	105 (4.1)	
Stroke n	nm (in)	135 (5.3)	
Induction		TURBOCHARGED AIR TO AIR CHAR	GE COOLED
Cooling Method		WATER	
Governing Type		MECHANICAL	
Governing Class		ISO 8528 G1	
Compression Ratio		16.0:1	
Displacement	. (cu. in)	7 (427.2)	
Moment of Inertia: k	g m² (lb/in²)	1.53 (5228)	
Voltage		12	
Ground		Negative	
Battery Charger Amps		85	
Engine Weight Dry k	g (lb)	788 (1737)	
Engine Weight Wet k	g (lb)	822 (1812)	
Engine Performanc	e Data	50 Hz	60 Hz
Engine Speed	rpm	1500	
Gross Engine Power Prime	kW (hp)	139.5 (187)	
Gross Engine Power Standb	y kW (hp)	153.4 (206)	
BMEP Prime	kPa (psi)	1591 (230.8)	
BMEP Standby	kPa (psi)	1750 (253.8)	



Fuel System					
Fuel Filter Type:			Replaceable Elei	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)	36.1 (9.5)	32.5 (8.6)	24.2 (6.4)	16.9 (4.5)
50 Hz Standby	l/hr (US gal/hr)	-	36.1 (9.5)	26.5 (7)	18.3 (4.8)
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 classA2,EN590

Air System		50 Hz		60 Hz	
Air Filter Type:			Replacea	able Element	
Combustion Air Flow Prime	m³/min (cfm)	10.6 (375)			
Combustion Air Flow Standby	m³/min (cfm)	11.5 (406)			
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:			Centrifuga	al	
Heat Rejected to Water & Lube Oil: Prime	kW (Btu/min)	69.1 (3930)			
Heat Rejected to Water & Lube Oil: Stand	oy kW (Btu/min)	75.7 (4305)			
Heat Radiation to Room*: Prime	kW (Btu/min)	22.5 (1280)			
Heat Radiation to Room*: Standby	kW (Btu/min)	24.9 (1416)			
Radiator Fan Load:	kW (hp)	4.5 (6)			

External Restriction to Cooling Airflow:

Radiator Cooling Airflow:

\*: 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.

m³/min (cfm)

Pa (in H2O)

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 / Cl4 15W-40		
Oil Cooling Method:		WATER		

125 (0.5)

Exhaust System		50 Hz	60 Hz
Maximum Allowable Back Pressure:	kPa (in Hg)	6 (1.8)	
Exhaust Gas Flow: Prime	m³/min (cfm)	26.3 (927)	
Exhaust Gas Flow: Standby	m³/min (cfm)	29.1 (1028)	
Exhaust Gas Temperature: Prime	°C (°F)	448 (838)	
Exhaust Gas Temperature: Standby	°C (°F)	464 (867)	



Alternator Physical	Data					
No. of Bearings:					1	
Insulation Class:					Н	
Winding Pitch:				2/3		
Winding Code					R1	
Wires:					12	
Ingress Protection Rating:					IP21	
Excitation System:					SHUNT	
AVR Model:					EVC600i	
dependant on voltage code selected	b					
Alternator Operatir	ng Data	1				
Overspeed: rpm					2250	
Voltage Regulation: (Steady	state)	%			+/- 1.0	
Wave Form NEMA = TIF:					50	
Wave Form IEC = THF:		%			2	
Total Harmonic content LL/I	LN:	%			3	
Radio Interference:			-			
Radiant Heat: 50 Hz		kW (Btu/min)	12.7 (722)			
Radiant Heat: 60 Hz		kW (Btu/min)				
Alternator Perform	ance D	ata 50 Hz:				
				400/230 V		
Voltage Code						
Motor Starting Capability*	kVA			412		
Short Circuit Capacity**	%		-	-	-	-
Reactances	Xd			3.522		
	X'd			0.119		
	X″d		0.115	0.115		
Alternator Perform	ance D	ata 60 Hz				
Voltage Code						
tonage coue						
Motor Starting Capability*	kVA					
Short Circuit Capacity**	%	-	-	-	-	-
	Xd					
Reactances	7.0					
Reactances	X'd					

\*Based on 30% voltage dip at 0.6 power factor.

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



### **Output Ratings 50 Hz** Standby Prime Voltage Code kVA kW kVA kW 415/240V 150 120 132 400/230V 165 380/220V 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

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.

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