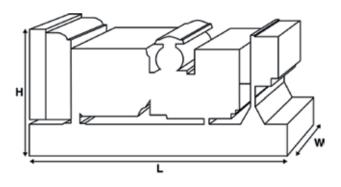


Output Ratings						
Voltage, Frequenc	у	Prime	Standby			
400/230V, 50 Hz	kVA	150	165			
	kW	120	132			
480/277V, 60 Hz	kVA	168.8	187.5			
	kW	135	150			



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



	P.	772-
3		

Soundproof Dimensions					
Length	cm	350.9			
Width	cm	112			
Height	cm	154.5			

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 Perfo	rmance Data					
Engine Make		Perkins				
Engine Model:		1106A-70TAG2				
Alternator Make		Marelli				
Alternator Model:		MJB 250 MA4				
Base Frame:		Heavy Duty Fabricated St	teel			
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)	37.9 (10.0)			
Fuel Consumption Standl	by litres (US gal)/hr	35.1 (9.3)	41.6 (11.0)			
Engine Technical [Data					
No. of Cylinders		6				
Alignment		In Line				
Cycle		4 Stroke				
Bore mm (in)		105.0 (4.1)	105.0 (4.1)			
Stroke mm (in)		135.0 (5.3)	135.0 (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)	7.0 (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 Performar	 nce Data	50 Hz	60 Hz			
Engine Speed	rpm	1500	1800			
Gross Engine Power Prime		136.0 (182.0)	155.4 (208.0)			
Gross Engine Power Stand		149.1 (200.0)	171.8 (230.0)			
BMEP Prime	kPa (psi)	1551.0 (225.0)	1477.0 (214.2)			
BMEP Standby	kPa (psi)	1701.0 (246.7)	1633.0 (236.8)			



125 (0.5)

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:	I/hr (US gal/hr)	35.1 (9.3)	32.4 (8.6)	25.0 (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	I/hr (US gal/hr)	41.6 (11.0)	37.9 (10.0)	29.2 (7.7)	19.9 (5.3)
60 Hz Standby	l/hr (US gal/hr)	-	41.6 (11.0)	32.1 (8.5)	22.0 (5.8)

(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)	10.0 (354)	14.4 (509)	
Combustion Air Flow Standby	m³/min (cfm)	10.7 (377)	15.0 (529)	
Max. Combustion Air Intake Restriction	kPa	3.0 (12.0)	3.0 (12.0)	
Cooling System		50 Hz	60 Hz	
Cooling System Capacity	l (US gal)	21.0 (5.5)	21.0 (5.5)	
Water Pump Type:			Centrifugal	
Heat Rejected to Water & Lube Oil: Prime	kW (Btu/min)	69.1 (3930)	73.5 (4180)	
Heat Rejected to Water & Lube Oil: Standb	y kW (Btu/min)	75.7 (4305)	80.1 (4555)	
Heat Radiation to Room*: Prime	kW (Btu/min)	20.0 (1137)	22.6 (1285)	
Heat Radiation to Room*: Standby	kW (Btu/min)	22.3 (1268)	25.0 (1422)	
Radiator Fan Load:	kW (hp)	4.5 (6.0)	8.0 (10.7)	
Radiator Cooling Airflow:	m³/min (cfm)	303.4 (10714)	239.4 (8454)	

External Restriction to 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.

Pa (in H2O)

Lubrication System				
Oil Filter Type:		Spin-On, Full Flow		
Total Oil Capacity:	I (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		

125 (0.5)

Exhaust System		50 Hz	60 Hz
Maximum Allowable Back Pressure:	kPa (in Hg)	6.0 (1.8)	6.0 (1.8)
Exhaust Gas Flow: Prime	m³/min (cfm)	23.9 (843)	31.9 (1125)
Exhaust Gas Flow: Standby	m³/min (cfm)	25.5 (902)	32.2 (1137)
Exhaust Gas Temperature: Prime	°C (°F)	484 (903)	407 (765)
Exhaust Gas Temperature: Standby	°C (°F)	484 (903)	407 (765)



Alternator Physical	Data					
No. of Bearings:					1	
Insulation Class:					Н	
Winding Pitch:					2/3	
Winding Code					MO	
Wires:					12	
Ingress Protection Rating:					IP23	
Excitation System:					SHUNT	
AVR Model:					Mark V	
dependant on voltage code selected	d					
Alternator Operatin	g Data					
Overspeed: rpm					2250	
Voltage Regulation: (Steady	state)	%			+/- 0.5%	
Wave Form NEMA = TIF:					50	
Wave Form IEC = THF:		%			2.0%	
Total Harmonic content LL/LN: %		%			2.0%	
Radio Interference:			EN 55011			
Radio Interference:						
Radio Interference: Radiant Heat: 50 Hz		kW (Btu/min)			10.1 (574)	
		kW (Btu/min) kW (Btu/min)				
Radiant Heat: 50 Hz Radiant Heat: 60 Hz		kW (Btu/min)			10.1 (574)	
Radiant Heat: 50 Hz	ance Da	kW (Btu/min)			10.1 (574) 12.7 (722)	
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Performa	ance Da	kW (Btu/min)	415/240V	400/230V	10.1 (574) 12.7 (722) 380/220V	220/127V
Radiant Heat: 50 Hz Radiant Heat: 60 Hz	ance Da	kW (Btu/min)	415/240V		10.1 (574) 12.7 (722)	220/127V
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Performa Voltage Code	ance Da	kW (Btu/min)	415/240V	400/230V	10.1 (574) 12.7 (722) 380/220V	220/127V
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Performa Voltage Code Motor Starting Capability*	ance Da	kW (Btu/min)	415/240V 232	400/230V 230/115V	10.1 (574) 12.7 (722) 380/220V	220/127V 261
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Performa Voltage Code		kW (Btu/min)		400/230V 230/115V 200/115V	10.1 (574) 12.7 (722) 380/220V 220/110V	
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Performa Voltage Code Motor Starting Capability*	kVA	kW (Btu/min)	232	400/230V 230/115V 200/115V 218	10.1 (574) 12.7 (722) 380/220V 220/110V	
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Performa Voltage Code Motor Starting Capability* Short Circuit Capacity**	kVA %	kW (Btu/min)	232	400/230V 230/115V 200/115V 218	10.1 (574) 12.7 (722) 380/220V 220/110V	261
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Performa Voltage Code Motor Starting Capability* Short Circuit Capacity**	kVA % Xd	kW (Btu/min)	232 - 2.750	400/230V 230/115V 200/115V 218 - 2.960	10.1 (574) 12.7 (722) 380/220V 220/110V 194 - 3.280	261 - 2.450
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Performa Voltage Code Motor Starting Capability* Short Circuit Capacity** Reactances	kVA % Xd X'd X"d	kW (Btu/min) ta 50 Hz:	232 - 2.750 0.240	400/230V 230/115V 200/115V 218 - 2.960 0.260	10.1 (574) 12.7 (722) 380/220V 220/110V 194 - 3.280 0.290	261 - 2.450 0.210
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Performa Voltage Code Motor Starting Capability* Short Circuit Capacity**	kVA % Xd X'd X"d	ta 50 Hz:	232 - 2.750 0.240 0.109	400/230V 230/115V 200/115V 218 - 2.960 0.260 0.109	10.1 (574) 12.7 (722) 380/220V 220/110V 194 - 3.280 0.290	261 - 2.450 0.210 0.090
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Performa Voltage Code Motor Starting Capability* Short Circuit Capacity** Reactances Alternator Performa	kVA % Xd X'd X"d	kW (Btu/min) ta 50 Hz: ta 60 Hz 480/277V	232 - 2.750 0.240 0.109	400/230V 230/115V 200/115V 218 - 2.960 0.260 0.109	10.1 (574) 12.7 (722) 380/220V 220/110V 194 - 3.280 0.290	261 - 2.450 0.210 0.090
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Performa Voltage Code Motor Starting Capability* Short Circuit Capacity** Reactances	kVA % Xd X'd X"d	ta 50 Hz:	232 - 2.750 0.240 0.109	400/230V 230/115V 200/115V 218 - 2.960 0.260 0.109	10.1 (574) 12.7 (722) 380/220V 220/110V 194 - 3.280 0.290	261 - 2.450 0.210 0.090
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Performa Voltage Code Motor Starting Capability* Short Circuit Capacity** Reactances Alternator Performa	kVA % Xd X'd X"d	kW (Btu/min) ta 50 Hz: ta 60 Hz 480/277V	232 - 2.750 0.240 0.109	400/230V 230/115V 200/115V 218 - 2.960 0.260 0.109	10.1 (574) 12.7 (722) 380/220V 220/110V 194 - 3.280 0.290	261 - 2.450 0.210 0.090
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Performa Voltage Code Motor Starting Capability* Short Circuit Capacity** Reactances Alternator Performa Voltage Code	kVA % Xd X'd X"d	ta 50 Hz: ta 60 Hz 480/277V 240/139V	232 - 2.750 0.240 0.109 380/220V 220/110V	400/230V 230/115V 200/115V 218 - 2.960 0.260 0.109 240/120V 208/120V	10.1 (574) 12.7 (722) 380/220V 220/110V 194 - 3.280 0.290 0.121	261 - 2.450 0.210 0.090 440/254V 220/127V
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Performation Voltage Code Motor Starting Capability* Short Circuit Capacity** Reactances Alternator Performation Voltage Code Motor Starting Capability*	kVA % Xd X'd X"d ance Da	ta 50 Hz: ta 60 Hz 480/277V 240/139V	232 - 2.750 0.240 0.109 380/220V 220/110V	400/230V 230/115V 200/115V 218 - 2.960 0.260 0.109 240/120V 208/120V	10.1 (574) 12.7 (722) 380/220V 220/110V 194 - 3.280 0.290 0.121	261 - 2.450 0.210 0.090 440/254V 220/127V
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Performa Voltage Code Motor Starting Capability* Short Circuit Capacity** Reactances Alternator Performa Voltage Code Motor Starting Capability* Short Circuit Capacity**	kVA % X'd X''d X''d ance Da	ta 50 Hz: ta 60 Hz 480/277V 240/139V	232 - 2.750 0.240 0.109 380/220V 220/110V	400/230V 230/115V 200/115V 218 - 2.960 0.260 0.109 240/120V 208/120V	10.1 (574) 12.7 (722) 380/220V 220/110V 194 - 3.280 0.290 0.121	261 - 2.450 0.210 0.090 440/254V 220/127V

Reactances shown are applicable to prime ratings.

^{*}Based on 30% voltage dip at 0 power factor.

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



kVA 150	Prime kW	kVA	Standby		
		kVA	kW		
150	120				
	120	165	132		
150	120	165	132		
150	120	165	132		
150	120	165	132		
150	120	165	132		
150	120	165	132		
150	120	165	132		
-	-	-	-		
-	-	-	-		
-	-	-	-		
Output Ratings 60 Hz					
	150 150 150 150 150 - -	150 120 150 120 150 120 150 120 - - - - - - - - - - - -	150 120 165 150 120 165 150 120 165 150 120 165 150 120 165 - - - - - - O Hz		

	Prime		Standby	
Voltage Code	kVA	kW	kVA	kW
480/277V	168.8	135	187.5	150
440/254V	168.8	135	187.5	150
416/240V	-	-	-	-
400/230V	-	-	-	-
380/220V	168.8	135	185	148
240/139V	168.8	135	187.5	150
240/120V	168.8	135	187.5	150
230/115V	-	-	-	-
220/127V	168.8	135	187.5	150
220/110V	168.8	135	185	148
208/120V	168.8	135	187.5	150
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.