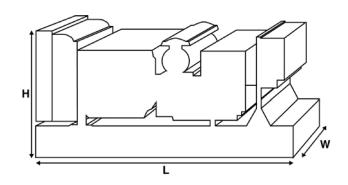


Output Ratings				
Voltage, Frequency		Prime	Standby	
400V, 50 Hz	kVA	150	165	
	kW	120	132	
480V, 60 Hz	kVA	168.8	187.5	
	kW	135	150	



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	2450 (96.5)
Width	mm	1010 (39.8)
Height	mm	1544 (60.8)
Weight (Dry)	kg	1545 (3406)
Weight (Wet)	kg	1566 (3452)

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



Engine Make		Perkins	
Engine Model:		1106A-70TAG2	
Alternator Make		Marelli Marelli	
Alternator Model:		MJB 250 MA4	
Control Panel:		-	
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 (US gal)	327 (86.4)	
Fuel Consumption Prir		32.4 (8.6)	37.9 (10.0)
Fuel Consumption Sta	ndby litres (US gal)	35.1 (9.3)	41.6 (11.0)
Engine Technica	l Data		
No. of Cylinders		6	
Alignment		In Line	
Cycle		4 Stroke	
Bore	mm (in)	105.0 (4.1)	
Stroke	mm (in)	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)	
En aire a Devile	ana Data		CO.11-
Engine Perform		50 Hz	60 Hz
Engine Speed	rpm	1500	1800
Gross Engine Power Pr	·	136.0 (182.0)	155.4 (208.0)
Gross Engine Power St		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)



8.0 (10.7)

125 (0.5)

239.4 (8454)

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)	25.0 (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	l/hr (US gal/hr)	41.6 (11.0)	37.9 (10.0)	29.2 (7.7)	19.9 (5.3)
60 Hz Standby	I/br (LIS gal/br)	<u>-</u>	416 (110)	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	I (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: Stand	by 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)

4.5 (6.0)

125 (0.5)

303.4 (10714)

Radiator Fan Load:

Radiator Cooling Airflow:

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.

kW (hp)

m³/min (cfm)

Pa (in H2O)

Lubrication Sys	item	
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)	6.0 (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)

External Restriction to Cooling Airflow: *: Heat radiated from engine and alternator



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	
Alternator Operatir	ng 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/I	LN:				2.0%	
Radio Interference:					EN 55011	
Radiant Heat: 50 Hz		kW (Btu/min)	10.1 (574)			
Radiant Heat: 60 Hz		kW (Btu/min)	12.7 (722)			
Alternator Performa	unce but	14 30 112.	415/240V	400/230V 230/115V	380/220V 220/110V	220/127V
voltage code				200/115V	220/1101	
Motor Starting Capability*	kVA			200/1151		
motor starting capability			232	218	194	261
Short Circuit Capacity			232	218	194	261
	%		-	-	-	-
	% Xd		2.750	2.960	3.280	2.450
	% Xd X'd		- 2.750 0.240	2.960 0.260	3.280 0.290	- 2.450 0.210
	% Xd		2.750	2.960	3.280	2.450
Reactances	% Xd X'd X"d	ta 60 Hz	- 2.750 0.240	2.960 0.260	3.280 0.290	- 2.450 0.210
Reactances	% Xd X'd X"d	ta 60 Hz 480/277V	- 2.750 0.240	2.960 0.260	3.280 0.290	- 2.450 0.210
Alternator Performa	% Xd X'd X"d		- 2.750 0.240 0.109	- 2.960 0.260 0.109	3.280 0.290	2.450 0.210 0.090
Alternator Performation Voltage Code Motor Starting Capability*	% Xd X'd X"d	480/277V	2.750 0.240 0.109	2.960 0.260 0.109	3.280 0.290	- 2.450 0.210 0.090 440/254V
Alternator Performation Voltage Code Motor Starting Capability*	% Xd X'd X"d ance Date kVA %	480/277V 240/139V 211	2.750 0.240 0.109 380/220V 220/110V	2.960 0.260 0.109 240/120V 208/120V	3.280 0.290 0.121	- 2.450 0.210 0.090 440/254V 220/127V 195 -
Alternator Performation Voltage Code Motor Starting Capability* Short Circuit Capacity	% Xd X'd X"d ance Date	480/277V 240/139V 211	2.750 0.240 0.109 380/220V 220/110V	2.960 0.260 0.109 240/120V 208/120V	- 3.280 0.290 0.121	- 2.450 0.210 0.090 440/254V 220/127V
Short Circuit Capacity Reactances Alternator Performation Voltage Code Motor Starting Capability* Short Circuit Capacity Reactances	% Xd X'd X"d ance Date kVA %	480/277V 240/139V 211	2.750 0.240 0.109 380/220V 220/110V	2.960 0.260 0.109 240/120V 208/120V	- 3.280 0.290 0.121	- 2.450 0.210 0.090 440/254V 220/127V 195 -

Reactances shown are applicable to prime ratings.

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



Output Ratings 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	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.

To contact your local sales Office please visit the FG wilson website at www.igv

FG Wilson is a trading name of Caterpillar (NI) Limited.