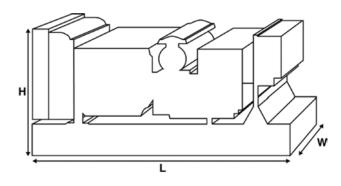


Output Ratings						
Voltage, Frequency Prime Standby						
400/230V, 50 Hz	kVA kW	200 160	-220 -176			
480/277V, 60 Hz	kVA kW	-	-			

Ratings at 0.8 power factor.

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





Soundproof Dimensions					
Length	cm	349			
Width	cm	130			
Height	cm	170.5			

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 Performance Data					
Engine Make		Perkins			
Engine Model:		1106A-70TAG4			
Alternator Make		Marelli			
Alternator Model:		MJB 250 LA4			
Base Frame:		Heavy Duty Fabricated Steel			
Circuit Breaker Type:		3 Pole MCCB			
Frequency:		50 HZ	60 HZ		
Engine Speed: RPM	rpm	1500	-		
Fuel Tank Capacity:	litres	413			
Fuel Consumption Prime	litres (US gal)	45.1 (11.9)	-		
Fuel Consumption Standby	litres (US gal)	49.0 (12.9)	-		

Engine Technical Data

		6		
No. of Cylinders		6		
Alignment		In Line		
Cycle		4 Stroke		
Bore r	nm (in)	105.0 (4.1)		
Stroke r	nm (in)	135.0 (5.3)		
Induction		Turbocharged Air To Air Charge Co	oled	
Cooling Method		Water		
Governing Type		Electronic		
Governing Class		ISO 8528 G2		
Compression Ratio		16.0:1		
Displacement	. (cu. in)	7.0 (427.8)		
Moment of Inertia:	kg m² (lb/in²)	1.26 (4306)		
Voltage		12		
Ground		Negative		
Battery Charger Amps		85		
Engine Weight Dry k	(lb)	788 (1737)		
Engine Weight Wet	kg (lb)	822 (1812)		
Engine Performance	ce Data	50 Hz	60 Hz	
Engine Speed	rpm	1500	-	
Gross Engine Power Prime	kW (hp)	178.9 (240.0)	-	
Gross Engine Power Standb	by kW (hp)	196.3 (263.0)	-	
BMEP Prime	kPa (psi)	2041.0 (296.0)	-	
BMEP Standby	kPa (psi)	2239.0 (324.7)	-	



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)	49.0 (12.9)	45.1 (11.9)	34.6 (9.1)	23.3 (6.2)
50 Hz Standby	l/hr (US gal/hr)	-	49.0 (12.9)	37.8 (10.0)	25.6 (6.8)
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:			Paper Element	
Combustion Air Flow Prime r	m³/min (cfm)	12.6 (445)	-	
Combustion Air Flow Standby r	m³/min (cfm)	13.2 (466)	-	
Max. Combustion Air Intake Restriction	(Pa	8.0 (32.1)	-	
Cooling System		50 Hz	60 Hz	
Cooling System Capacity	l (US gal)	27.0 (7.1)	-	
Water Pump Type:			Centrifugal	
Heat Rejected to Water & Lube Oil: Prime	kW (Btu/min)	78.2 (4447)	-	
Heat Rejected to Water & Lube Oil: Standby	kW (Btu/min)	81.0 (4606)	-	
Heat Radiation to Room*: Prime	kW (Btu/min)	24.3 (1382)	-	
Heat Radiation to Room*: Standby	kW (Btu/min)	26.0 (1479)	-	
Radiator Fan Load:	kW (hp)	5.0 (6.7)	-	
Radiator Cooling Airflow:	m³/min (cfm)	307.2 (10849)	-	
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 CI4 15W-40		
Oil Cooling Method:		Water		

Exhaust System		50 Hz	60 Hz
Maximum Allowable Back Pressure:	kPa (in Hg)	15.0 (4.4)	-
Exhaust Gas Flow: Prime	m³/min (cfm)	34.9 (1232)	-
Exhaust Gas Flow: Standby	m³/min (cfm)	36.8 (1300)	-
Exhaust Gas Temperature: Prime	°C (°F)	527 (981)	-
Exhaust Gas Temperature: Standby	°C (°F)	580 (1076)	-



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

Alternator Operating 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
Radiant Heat: 50 Hz	kW (Btu/min)	12.8 (728)
Radiant Heat: 60 Hz	kW (Btu/min)	-

Alternator Performance Data 50 Hz:

		415/240V	400/230V	380/220V	220/127V
Voltage Code			230/115V	220/110V	
			200/115V		
Motor Starting Capability*	kVA	311	290	259	367
Short Circuit Capacity**	%	-	-	-	-
Reactances	Xd	2.870	3.090	3.430	2.550
	X′d	0.240	0.260	0.290	0.220
	X″d	0.102	0.102	0.113	0.084

Alternator Performance Data 60 Hz

Voltage Code

Motor Starting Capability*	kVA	-	-	-	-	-
Short Circuit Capacity**	%	-	-	-	-	-
Reactances	Xd	-	-	-	-	-
	X'd	-	-	-	-	-
	X″d	-	-	-	-	-

Reactances shown are applicable to prime ratings.

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

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



Output Ratings 50 Hz

	Prime		Standby	
Voltage Code	kVA	kW	kVA	kW
415/240V	200	160	220	176
400/230V	200	160	220	176
380/220V	200	160	220	176
230/115V	200	160	220	176
220/127V	200	160	220	176
220/110V	200	160	220	176
200/115V	200	160	220	176
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.