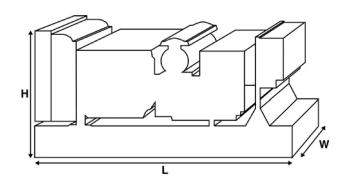


Output Ratings						
Voltage, Frequency		Prime	Standby			
400V, 50 Hz	kVA	200	220			
	kW	160	176			
480V, 60 Hz	kVA	-	-			
	kW	-	-			



Ratings at 0.8 power factor.

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



Dimension	Dimensions and Weights					
Length	mm	2510 (98.8)				
Width	mm	1010 (39.8)				
Height	mm	1640 (64.6)				
Weight (Dry)	kg	1622 (3576)				
Weight (Wet)	kg	1649 (3635)				

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



nance Data		
	Perkins	
	1106A-70TAG4	
	Marelli	
	MJB 250 LA4	
	-	
	Heavy Duty Fabricated Steel	
	3 Pole MCCB	
	50 HZ	60 HZ
rpm	1500	-
litres (US gal)	394 (104.1)	
litres (US gal)	45.1 (11.9)	-
litres (US gal)	49.0 (12.9)	-
 ta		
	6	
	In Line	
	4 Stroke	
nm (in)	105.0 (4.1)	
ım (in)	135.0 (5.3)	
	Turbocharged Air To Air Charge Co	poled
	Water	
	Electronic	
	ISO 8528 G2	
	16.0:1	
(cu. in)	7.0 (427.8)	
g m² (lb/in²)	1.26 (4306)	
	12	
	Negative	
	85	
g (lb)	788 (1737)	
g (lb)	822 (1812)	
 e Data	50 Hz	60 Hz
		-
·		_
		-
		-
κι α (μsi)		
	rpm litres (US gal) litres (US gal) litres (US gal) ta (cu. in) g m² (lb/in²)	Perkins 1106A-70TAG4 Marelli MJB 250 LA4 - Heavy Duty Fabricated Steel 3 Pole MCCB 50 HZ rpm 1500 litres (US gal) iltres (US gal) iltres (US gal) 45.1 (11.9) litres (US gal) 49.0 (12.9) ta 6 In Line 4 Stroke Im (in) 105.0 (4.1) 135.0 (5.3) Turbocharged Air To Air Charge Co Water Electronic ISO 8528 G2 16.0:1 7.0 (427.8) 1.26 (4306) 12 Negative 85 (cu. in) 7.0 (427.8) 3 (lb) 7 88 (1737) 8 (1737) 8 (10b) 8 22 (1812) Page Data 50 Hz rpm 1500 kW (hp) 178.9 (240.0) (kW (hp) 178.9 (240.0) (kW (hp) 178.9 (240.0)



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	m³/min (cfm)	12.6 (445)		-	
Combustion Air Flow Standby	m³/min (cfm)	13.2 (466)		-	
Max. Combustion Air Intake Restriction	kPa	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.

Lu	brica	ation	Sy	stem

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 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	
Alternator Operatin	ng Data					
Overspeed: rpm	<u></u>				2250	
Voltage Regulation: (Steady	state)				+/- 0.5%	
Wave Form NEMA = TIF:					50	
Wave Form IEC = THF:					2.0%	
Total Harmonic content LL/l	_N:				2.0%	
Radio Interference:					EN 55011	
Radiant Heat: 50 Hz		kW (Btu/min)			12.8 (728)	
Radiant Heat: 60 Hz		kW (Btu/min)			-	
Alternator Performa	ance Da	ta 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
Alt t D C						
Alternator Perform	ance Da	ta 60 Hz				
Voltage Code						
voltage code						
Motor Starting Capability*	kVA	-	-	-	-	-

Reactances shown are applicable to prime ratings.

Xd X'd X"d

Reactances

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

220/127V 220/110V 208/120V

240/120 220/110



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	-	-	-	-





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.