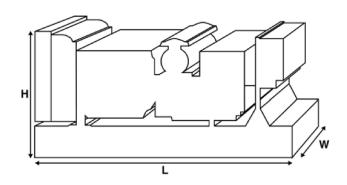


Output Ratings					
Voltage, Frequency		Prime	Standby		
400V, 50 Hz	kVA				
1004, 30112	kW				
480V, 60 Hz	kVA	225	250		
400V, 00 HZ	kW	180	200		



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	
		2662 (1040)
Length	mm	2662 (104.8)
Width	mm	1071 (42.2)
Height	mm	1818 (71.6)
Weight (Dry)	kg	2023 (4460)
Weight (Wet)	kg	2056 (4533)

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	ormance Data				
Engine Make		Perkins			
Engine Model:		1506A-E88TAG2			
Alternator Make		Marelli	Marelli		
Alternator Model:		MJB250LA4	MJB250LA4		
Control Panel:		Power Wizard 1.1+			
Base Frame:		Heavy Duty Fabricated	Steel		
Circuit Breaker Type:		3 Pole MCCB			
Frequency:		50 HZ	60 HZ		
Engine Speed: RPM	rpm		1800		
Fuel Tank Capacity:	litres (US gal)	528 (139.48)			
Fuel Consumption Prime	e litres (US gal)		49.4 (13.1)		
Fuel Consumption Stand	dby litres (US gal)		54.3 (14.3)		
Engine Technical	 Data				
No. of Cylinders		6			
Alignment		IN LINE			
Cycle		4 STROKE			
Bore	mm (in)	112 (4.4)			
Stroke	mm (in)	149 (5.9)			
Induction		TURBOCHARGED AIR TO	O AIR CHARGE COOLED		
Cooling Method		WATER			
Governing Type		ELECTRONIC			
Governing Class		ISO 8528 G2			
Compression Ratio		16.1:1			
Displacement	L (cu. in)	8.8 (537)			
Moment of Inertia:	kg m² (lb/in²)	2.4031 (8212)			
Voltage		24			
Ground		Negative			
Battery Charger Amps		45			
Engine Weight Dry	kg (lb)	778 (1715)			
Engine Weight Wet	kg (lb)	800 (1764)			
Engine Performa	nce Data	50 Hz	60 Hz		
Engine Speed	rpm		1800		
Gross Engine Power Prin			211.3 (283)		
Gross Engine Power Star			233.9 (314)		
BMEP Prime	kPa (psi)		1600 (232)		
BMEP Standby	kPa (psi)		1771 (256.8)		



Fuel Filter Type:			-	Replaceable Eler	nent	
Recommended Fuel:				Class A2 Diesel		
Fuel Consumption at			110 % Load	100 % Load	75 % Load	50 % Load
50 Hz Prime:	l/hr (US gal/hr)					
50 Hz Standby	l/hr (US gal/hr)		-			
60 Hz Prime	l/hr (US gal/hr)		54.3 (14.3)	49.4 (13.1)	38.7 (10.2)	28.7 (7.6)
60 Hz Standby	l/hr (US gal/hr)		-	54.3 (14.3)	42.2 (11.1)	30.8 (8.1)
(Based on diesel fuel wit	h a specific gravity of 0.85	and conforming	to BS2869, class A2			
Air System				50 Hz		60 Hz
Air Filter Type:					Paper Element	
Combustion Air Flow	Prime m	³/min (cfm)			17.7 (625)	
Combustion Air Flow	Standby m	³/min (cfm)			18.6 (657)	
Max. Combustion Air	Intake Restriction kF	'a			6.2 (24.9)	
Cooling System	า			50 Hz		60 Hz
Cooling System Capa	city	l (US gal)			33.1626 (8	3.8)
Water Pump Type:				(Centrifugal	
Heat Rejected to Wate	er & Lube Oil: Prime	kW (Btu/min))		101 (5744)
Heat Rejected to Wate	er & Lube Oil: Standby	kW (Btu/min))		107 (6085)
Heat Radiation to Roc	m*: Prime	kW (Btu/min))		36.1 (2053	3)
Heat Radiation to Roc	m*: Standby	kW (Btu/min))		38.8 (1391)
Radiator Fan Load:		kW (hp)			13.2 (17.7))
Radiator Cooling Airfle	ow:	m³/min (cfm)		438 (1546	6)
External Restriction to	Cooling Airflow:	Pa (in H2O)			125 (0.5)	
9	gine and alternator ambient conditions up to ilson Dealer for power rati		te conditions.			
Lubrication Sys	<u>stem</u>				C : 5 H.G	
Oil Filter Type:					Spin-on, Full flow	
Total Oil Capacity:	I (US gal)				39 (10.3)	
Oil Pan Capacity:	l (US gal)				36 (9.5)	
Oil Type:					API CI-4 0W-30	
Oil Cooling Method:					WATER	

Exhaust System		50 Hz	60 Hz
Maximum Allowable Back Pressure:	kPa (in Hg)		10 (3)
Exhaust Gas Flow: Prime	m³/min (cfm)		39.7 (1402)
Exhaust Gas Flow: Standby	m³/min (cfm)		42.1 (1487)
Exhaust Gas Temperature: Prime	°C (°F)		431 (808)
Exhaust Gas Temperature: Standby	°C (°F)		444 (831)



Alternator Physical D	ata	
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 Operating	Data	
Overspeed: rpm		2250
Voltage Regulation: (Steady sta	te)	+/- 0.5
Wave Form NEMA = TIF:		50
Wave Form IEC = THF:		2
Total Harmonic content LL/LN:		2
Radio Interference:		EN 55011
Radiant Heat: 50 Hz	kW (Btu/min)	
Radiant Heat: 60 Hz	kW (Btu/min)	14.6 (830)
Alternator Performan	ice Data 50 Hz:	

Voltage Code

Motor Starting Capability*	kVA				
Short Circuit Capacity	%	300	300	300	300
Reactances	Xd				
	X'd				
	X"d				

Alternator Performa	ance Data 6	0 Hz				
		480/277 V	380/220 V			440/254 V
Voltage Code		240/139 V				220/127 V
Motor Starting Capability*	kVA	346	217	260		291
Short Circuit Capacity	%	300	300	300	300	300
Reactances	Xd	2.898	3.477			3.449
	X'd	0.244	0.389			0.29
	X"d	0.096	0.152			0.114

Reactances shown are applicable to prime ratings.

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

220/110V 208/120V

240/120

220/110



Output Ratings	50 Hz			
- Catpat Hatings		Prime		Standby
Voltage Code	kVA	kW	kVA	kW
415/240V				
400/230V				
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	225	180	250	200
440/254V	225	180	250	200
416/240V				
400/230V				
380/220V	225	180	250	200
240/139V	225	180	250	200
240/120V				
230/115V				
220/127V	225	180	250	200





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.