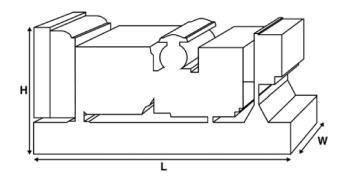


Output Ratings					
Voltage, Frequency		Prime	Standby		
400/230V, 50 Hz	kVA kW				
480/277V, 60 Hz	kVA kW	281.3	312.5 250		



Ratings at 0.8 power factor.

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



₹ P	

Dimension	Dimensions and Weights					
Length	mm	2662 (104.8)				
Width	mm	1071 (42.2)				
Height	mm	1818 (71.6)				
Weight (Dry)	kg	2063 (4548)				
Weight (Wet)	kg	2096 (4621)				

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 Perf	ormance Data				
Engine Make		Perkins			
Engine Model:		1506A-E88TAG3			
Alternator Make		Marelli / Leroy Some	Marelli / Leroy Somer		
Alternator Model:		MJB250LB4 / LL5114H	MJB250LB4 / LL5114H		
Control Panel:		Power Wizard 1.1+			
Base Frame:		Heavy Duty Fabricated S	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 Prim	ne litres (US gal)		60.2 (15.9)		
Fuel Consumption Stan	ndby litres (US gal)		66.8 (17.6)		
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) 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	ance Data	50 Hz	60 Hz		
Engine Speed	rpm		1800		
Gross Engine Power Pri			270 (362)		
Gross Engine Power Sta			297 (398)		
BMEP Prime	kPa (psi)		2044 (296.4)		
BMEP Standby	kPa (psi)		2248 (326.1)		

Exhaust Gas Flow: Standby

Exhaust Gas Temperature: Prime

Exhaust Gas Temperature: Standby

m³/min (cfm)

°C (°F)

°C (°F)



48.9 (1727) 477 (891)

496 (925)

Fuel Filter Type:			1	Replaceable Elei	ment	
Recommended Fuel:				Class A2 Diesel		
Fuel Consumption at			110 % Load	100 % Load	75 % Load	50 % Load
50 Hz Prime:	l/hr (US gal/h	r)				
50 Hz Standby	l/hr (US gal/h		-			
60 Hz Prime	l/hr (US gal/h		66.8 (17.6)	60.2 (15.9)	46.3 (12.2)	33.7 (8.9)
60 Hz Standby	l/hr (US gal/h	r)	-	66.8 (17.6)	50.7 (13.4)	36.3 (9.6)
(Based on diesel fuel with a			to BS2869, class A2			
Air System			50	Hz	60 Hz	
Air Filter Type:					Paper Element	
Combustion Air Flow Pr	ime	m³/min (cfm)			18.6 (657)	
Combustion Air Flow St	andby	m³/min (cfm)			19.8 (699)	
Max. Combustion Air Int	take Restriction	kPa			6.2 (24.9)	
Cooling System			50	Hz	60 Hz	
Cooling System Capacit	v	I (US gal)		112	33.1626 (8	3.8)
Water Pump Type:	,	. (2.2 g,			Centrifugal	
Heat Rejected to Water	& Lube Oil: Prime	kW (Btu/min))		115 (6540)
Heat Rejected to Water		y kW (Btu/min))	120 (6824)		
Heat Radiation to Room	*: Prime	kW (Btu/min))	28 (1592)		
Heat Radiation to Room	*: Standby	kW (Btu/min))	29.5 (700)		
Radiator Fan Load:		kW (hp)		13.2 (17.7)		
Radiator Cooling Airflov	v :	m³/min (cfm))		438 (1546	6)
External Restriction to C	ooling Airflow:	Pa (in H2O)			125 (0.5)	
*: Heat radiated from engir Designed to operate in am Contact your local FG Wilso	bient conditions up	Y Y	te conditions.			
Lubrication Syst	e <mark>m</mark>				Coding on Full flavor	
Oil Filter Type:	L/LIC IV				Spin-on, Full flow 39 (10.3)	
Total Oil Capacity: I (US gal)				36 (9.5)		
Oil Pan Capacity: I (US gal) Oil Type:				36 (9.5) API CI-4 0W-30		
Oil Cooling Method:				WATER		
on cooling Method:					VVILIV	
Exhaust System			50	Hz	60 Hz	
Maximum Allowable Back Pressure: kPa (in Hg)		a (in Hg)			10 (3)	
Exhaust Gas Flow: Prime		³/min (cfm)			45.3 (1600	



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 Operating Dat	a	
Overspeed: rpm		2250
Voltage Regulation: (Steady state)		+/- 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)	17.5 (995)
Alternator Performance D		17.5 (995)

Voltage Code

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

Alternator Performa	ance Data 6	60 Hz				
		480/277 V	380/220 V			440/254 V
Voltage Code		240/139 V				220/127 V
Motor Starting Capability*	kVA	448	281			377
Short Circuit Capacity**	%	300	300	300	300	300
Reactances	Xd	2.851	3.04			3.316
	X'd	0.235	0.334			0.274
	X"d	0.09	0.128			0.105

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					
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	

	Prime		Standby	
Voltage Code	kVA	kW	kVA	kW
480/277V	281.3	225	312.5	250
440/254V	275	220	305	244
416/240V				
400/230V				
380/220V	250	200	275	220
240/139V	281.3	225	312.5	250
240/120V				
230/115V				
220/127V	275	220	304.8	243.8
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.