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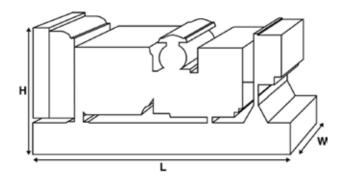
Standard Alternator

Output Ratings						
Voltage, Frequency		Prime	Standby			
400/230 V, 50 Hz		250	275			
	kW	200	220			
	kVA					
	kW					



Ratings at 0.8 power factor.

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



Dimensions and Weights					
Length	mm	2662 (104.8)			
Width	mm	1071 (42.2)			
Height	mm	1818 (71.6)			
Weight (Dry)	kg	2035 (4486)			
Weight (Wet)	kg	2068 (4559)			

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		Leroy Somer			
Alternator Model:		LL5114H			
Control Panel:		DSE7410			
Base Frame:		Heavy Duty Fabricated S	iteel		
Circuit Breaker Type:		3 Pole MCCB			
Frequency:		50 HZ	60 HZ		
Engine Speed: RPM	rpm	1500			
Fuel Tank Capacity:	litres (US gal)	528 (139.48)			
Fuel Consumption Prim	ne litres (US gal)/hr	53.8 (14.2)			
Fuel Consumption Star	ndby litres (US gal)/hr	59.2 (15.6)			
Engine Technica	l Data				
No. of Cylinders		6			
Alignment		IN LINE			
Cycle		4 STROKE			
Bore mm (in)		112 (4.4)			
Stroke mm (in)		149 (5.9)	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 Perform	ance Data	50 Hz	60 Hz		
Engine Speed	rpm	1500			
Gross Engine Power Pri	ime kW (hp)	236 (316)			
Gross Engine Power Sta	andby kW (hp)	258 (346)			
BMEP Prime	kPa (psi)	2144 (310.9)			
BMEP Standby	kPa (psi)	2344 (339.9)			



Fuel Filter Type:			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/hr)	59.2 (15.6)	53.8 (14.2)	40.9 (10.8)	29.3 (7.7)
50 Hz Standby	l/hr (US gal/hr)	-	59.2 (15.6)	44.7 (11.8)	31.5 (8.3)
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 cor	nforming to BS2869, class A2			

Air System		50 Hz	60 Hz	
Air Filter Type:			Paper Element	
Combustion Air Flow Prime	m³/min (cfm)	14.1 (498)		
Combustion Air Flow Standby	m³/min (cfm)	15 (530)		
Max. Combustion Air Intake Restriction	kPa	6.2 (24.9)		
Cooling System		50 Hz	60 Hz	
Cooling System Capacity	l (US gal)	30.7 (8.1)	·	
Water Pump Type:			Centrifugal	
Lloat Daigetad to Mator C. Luba Oil, Dringa	IdA/ (Dtu /poin)	110 (6256)		

Cooling System Capacity	l (US gal)	30.7 (8.1)
Water Pump Type:		Centrifugal
Heat Rejected to Water & Lube Oil: Prime	kW (Btu/min)	110 (6256)
Heat Rejected to Water & Lube Oil: Standby	kW (Btu/min)	112 (6369)
Heat Radiation to Room*: Prime	kW (Btu/min)	32.5 (1848)
Heat Radiation to Room*: Standby	kW (Btu/min)	34.3 (1951)
Radiator Fan Load:	kW (hp)	7.7 (10.3)
Radiator Cooling Airflow:	m³/min (cfm)	329.1 (11624)
External Restriction to Cooling Airflow:	Pa (in H2O)	125 (0.5)
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^{*:} 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:	I (US gal)	39 (10.3)		
Oil Pan Capacity:	I (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)	37.5 (1324)	
Exhaust Gas Flow: Standby	m³/min (cfm)	40.4 (1427)	
Exhaust Gas Temperature: Prime	°C (°F)	537 (999)	
Exhaust Gas Temperature: Standby	°C (°F)	558 (1036)	
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Alternator Physical Data	
No. of Bearings:	1
Insulation Class:	Н
Winding Pitch:	2/3
Winding Code	6
Wires:	12
Ingress Protection Rating:	IP23
Excitation System:	SHUNT
AVR Model:	R250

^{*} 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
Total Harmonic content LL/LN:	%	2
Radio Interference:		EN61000-6
Radiant Heat: 50 Hz	kW (Btu/min)	19.3 (1098)
Radiant Heat: 60 Hz	kW (Btu/min)	

Alternator Performance Data 50 Hz:								
		415/240 V	400/230 V	380/220 V				
Voltage Code			230/115 V					
			230 V					
Motor Starting Capability*	kVA	563	532	491				
Short Circuit Capacity**	%	300	300	300	300			
Reactances	Xd	3.823	4.115	4.377				
	X'd	0.265	0.285	0.303				
	X"d	0.169	0.169	0.18				

Alternator Performance Data 60 Hz

Voltage Code

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

Reactances shown are applicable to prime ratings.

^{*}Based on 30% voltage dip at 0.6 power factor.

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



Output Ratings 50 Hz							
		Prime		Standby			
Voltage Code	kVA	kW	kVA	kW			
415/240V	250	200	275	220			
400/230V	250	200	275	220			
380/220V	240	192	264	211.2			
230/115V	250	200	275	220			
220/127V							
220/110V							
200/115V							
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							





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	Dealer Contact Details						
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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

The warranty for this product in prime applications 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.

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.