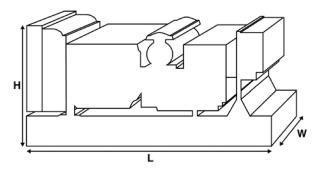




Output Ratings					
Voltage, Frequenc	Voltage, Frequency Prime Standby				
400/230V, 50 Hz	kVA kW	500 400	550 440		
480/277V, 60 Hz	kVA kW				

Ratings at 0.8 power factor.

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



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Dimensions and Weights				
Length	mm	3800 (149.6)		
Width	mm	1131 (44.5)		
Height	mm	2215 (87.2)		
Weight (Dry)	kg	3800 (8378)		
Weight (Wet)	kg	3858 (8505)		

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:

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Optional LS Upgrade

Engine Make		Perkins			
Engine Model:		2506A-E15TAG2	2506A-E15TAG2		
Alternator Make		Leroy Somer LL6114F			
Alternator Model:					
Control Panel:		0	0		
Base Frame:		Heavy Duty Fabricated	Heavy Duty Fabricated Steel		
Circuit Breaker Type:		3 Pole MCCB			
Frequency:		50 HZ	50 HZ 60 HZ		
Engine Speed: RPM	rpm	1500			
Fuel Tank Capacity:	litres (US gal)	888 (234.58)			
Fuel Consumption Prime	litres (US gal)	98.5 (26)			
Fuel Consumption Standby	litres (US gal)	108.6 (28.7)			
Engine Technical Da	17.0	6			
No. of Cylinders		IN LINE			
Alignment		4 STROKE			
Cycle		137 (5.4)			
Bore mm (in)			171 (6.7)		
	nm (in)	TURBOCHARGED AIR TO			
Induction		WATER			
Cooling Method		ELECTRONIC			
Governing Type		ISO 8528 G2			
Governing Class		16.0:1			
Compression Ratio	(cu in)		15.2 (927.6)		
	(cu. in) g m² (lb/in²)	4.29 (14660)			
	y m (ib/iii)	24			
Voltage		Negative			
Ground		70			
Engine Weight Dry k	g (lb)	1633 (3600)			
	g (lb)	1714 (3779)			
	9 (iv)				
Engine Performance Data		50 Hz	60 Hz		
Engine Speed rpm		1500			
Gross Engine Power Prime kW (hp)		451 (605)	451 (605)		
Gross Engine Power Standb	y kW (hp)	495 (664)	495 (664)		
BMEP Prime	kPa (psi)	2405 (346)			
BMEP Standby	kPa (psi)	2640 (379.8)			



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UKAS INSTEMS

Optional LS Upgrade

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/h	r)	108.6 (28.7)	98.5 (26)	75.2 (19.9)	54 (14.3)
50 Hz Standby	l/hr (US gal/h		-	108.6 (28.7)	82 (21.7)	58.1 (15.3)
60 Hz Prime	l/hr (US gal/h					
60 Hz Standby	l/hr (US gal/h		-			
(Based on diesel fuel wit	_		to BS2869 classA2,E	N590		
Air System			50	H7	60 Hz	
Air Filter Type:				116	Non Canister	
Combustion Air Flow	Prime	m³/min (cfm)	35.8	(1264)		
Combustion Air Flow		m ³ /min (cfm)		(1293)		
Max. Combustion Air	Intake Restriction	kPa	6.2 (24.9)		
Cooling System				50 Hz 60 Hz		
Cooling System Capa	city	l (US gal)	58.1	(15.3)		
Water Pump Type:					Centrifugal	
Heat Rejected to Wate		kW (Btu/min)		(8360)		
Heat Rejected to Wate	er & Lube Oil: Standb	y kW (Btu/min)		(9383)		
Heat Radiation to Roc	om*: Prime	kW (Btu/min)	55.5	(3156)		
Heat Radiation to Roc	om*: Standby	kW (Btu/min)		61.7 (3509)		
Radiator Fan Load:		kW (hp)		(18.4)		
Radiator Cooling Airfle		m³/min (cfm)		476.4 (16824)		
External Restriction to	-	Pa (in H2O)	125	(0.5)		
*: Heat radiated from eng Designed to operate in a Contact your local FG Wi	ambient conditions up	· · · · ·	e conditions.			
Lubrication Sys	stem					
Oil Filter Type:					Eco, Full Flow	
Total Oil Capacity:	l (US gal)				62 (16.4)	
Oil Pan Capacity:	l (US gal)				53 (14)	
Oil Type:					API CI4 15W-40	
Oil Cooling Method:					WATER	

Exhaust System		50 Hz	60 Hz	
Maximum Allowable Back Pressure:	kPa (in Hg)	6.8 (2)		
Exhaust Gas Flow: Prime	m³/min (cfm)	94 (3320)		
Exhaust Gas Flow: Standby	m³/min (cfm)	98 (3461)		
Exhaust Gas Temperature: Prime	°C (°F)	500 (932)		
Exhaust Gas Temperature: Standby	°C (°F)	550 (1022)		



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Optional LS Upgrade

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		
Alternator Operating Da	ta					
Overspeed: rpm				2250		
Voltage Regulation: (Steady state)			+/- 0.5			
Wave Form NEMA = TIF:		50				
Wave Form IEC = THF:		2				
Total Harmonic content LL/LN:			4			
Radio Interference:				EN61000-6		
Radiant Heat: 50 Hz	kW (Btu/min)			26.7 (1518)		
Radiant Heat: 60 Hz	kW (Btu/min)					
Alternator Performance	Data 50 Hz:					
		415/240 V	400/230 V	380/220 V		
Voltage Code						
			230 V			
Motor Starting Capability* kVA		1296	1213	1106		

Motor Starting Capability*	kVA	1296	1213	1106	
Short Circuit Capacity	%	300	300	300	300
Reactances	Xd	2.85	3.07	3.4	
	X'd	0.15	0.16	0.18	
	X″d	0.111	0.111	0.123	

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.



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Optional LS Upgrade

Output Ratings	50 Hz			
		Prime		Standby
Voltage Code	kVA	kW	kVA	kW
415/240V	500	400	550	440
400/230V	500	400	550	440
380/220V	500	400	550	440
230/115V	500	400	550	440
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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