

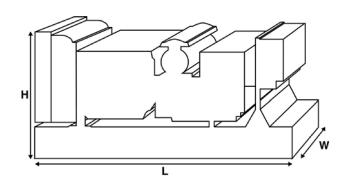
Optional LS Upgrade

Output Ratings							
Voltage, Frequency		Prime	Standby				
400V, 50 Hz	kVA						
	kW						
480V, 60 Hz	kVA	400	437.5				
	kW	320	350				



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	3800 (149.6)						
Width	mm	1131 (44.5)						
Height	mm	2156 (84.9)						
Weight (Dry)	kg	3195 (7044)						
Weight (Wet)	kg	3253 (7172)						

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 Perfor	mance Data					
Engine Make	'	Perkins	Perkins			
Engine Model:		2206A-E13TAG5				
Alternator Make		Leroy Somer	Leroy Somer			
Alternator Model:		LL6114B				
Control Panel:		0	0			
Base Frame:		Heavy Duty Fabricated	Steel			
Circuit Breaker Type:		3 Pole MCCB	3 Pole MCCB			
Frequency:		50 HZ	60 HZ			
Engine Speed: RPM	rpm		1800			
Fuel Tank Capacity:	litres (US gal)	888 (234.58)				
Fuel Consumption Prime	litres (US gal)		80.9 (21.4)			
Fuel Consumption Standb	y litres (US gal)		88 (23.2)			
	<u> </u>					
Engine Technical D	ata					
No. of Cylinders		6				
Alignment		IN LINE				
Cycle		4 STROKE				
Bore	mm (in)	130 (5.1)				
Stroke	mm (in)	157 (6.2)	157 (6.2)			
Induction		TURBOCHARGED AIR TO	TURBOCHARGED AIR TO AIR CHARGE COOLED			
Cooling Method		WATER	WATER			
Governing Type		ELECTRONIC				
Governing Class		ISO 8528 G2				
Compression Ratio		16.3:1				
Displacement	L (cu. in)	12.5 (762.8)				
Moment of Inertia:	kg m² (lb/in²)	2.77 (9465)				
Voltage		24				
Ground		Negative				
Battery Charger Amps		70				
Engine Weight Dry	kg (lb)	1301 (2868)				
Engine Weight Wet	kg (lb)	1351 (2978)				
Engine Performan	ce Data	50 Hz	60 Hz			
Engine Speed	rpm		1800			
Gross Engine Power Prime	kW (hp)		373.4 (501)			
Gross Engine Power Stand	by kW (hp)		406.5 (545)			
BMEP Prime	kPa (psi)		1991 (288.8)			
BMEP Standby	kPa (psi)		2168 (314.4)			

Optional LS Upgrade



Fuel System Fuel Filter Type:				Replaceable Eler	mont	
Recommended Fuel:				Class A2 Diesel	Herit	
Fuel Consumption at			110 % Load	100 % Load	75 % Load	50 % Load
	l/hr (US gal/hr)		110 % LOau	100 % LOad	73 % LOau	30 % LOad
50 Hz Prime: 50 Hz Standby	I/hr (US gal/hr)					
60 Hz Prime	I/hr (US gal/hr)		88 (23.2)	80.9 (21.4)	62.1 (16.4)	43.4 (11.5)
	I/hr (US gal/hr)		-	88 (23.2)	67.5 (17.8)	47 (12.4)
(Based on diesel fuel with a spe			to R\$2860 class \ 2 E		07.5 (17.0)	47 (12.4)
(based off dieser fuer with a spe	cinc gravity or o.c	s and comorning	to b32009 classA2,L	11390		
Air System			50	Hz	60 Hz	
Air Filter Type:					Non Canister	
Combustion Air Flow Prime	1	m³/min (cfm)			23.8 (840)	
Combustion Air Flow Standl	by 1	m³/min (cfm)			25.7 (908)	
Max. Combustion Air Intake	Restriction I	«Pa			6.4 (25.7)	
Cooling System			50	Hz	60 Hz	
Cooling System Capacity		I (US gal)			45.2 (11.9)	
Water Pump Type:				(	Centrifugal	
Heat Rejected to Water & Lu	be Oil: Prime	kW (Btu/min)			137.5 (781	9)
Heat Rejected to Water & Lu	be Oil: Standby	kW (Btu/min)			148.9 (846	8)
Heat Radiation to Room*: Pr	ime	kW (Btu/min)			68.6 (3901	)
Heat Radiation to Room*: St	andby	kW (Btu/min)			73.2 (2716	j)
Radiator Fan Load:		kW (hp)			19 (25.5)	
Radiator Cooling Airflow:		m³/min (cfm)			538.2 (190	006)
External Restriction to Cooli	ng Airflow:	Pa (in H2O)			125 (0.5)	
*: Heat radiated from engine an Designed to operate in ambien Contact your local FG Wilson Do	t conditions up t ealer for power ra		e conditions.			
<b>Lubrication System</b> Oil Filter Type:					Eco, Full flow	
**	(US gal)				40 (10.6)	
	(US gal)				38 (10)	
Oil Type:	(03 gai)				API CH4 SAE15W-4	0
On Type.						

	50 Hz	60 Hz
kPa (in Hg)		10 (3)
m³/min (cfm)		67.5 (2384)
m³/min (cfm)		74.5 (2631)
°C (°F)		618.2 (1145)
°C (°F)		680 (1256)
	m³/min (cfm) m³/min (cfm) °C (°F)	kPa (in Hg)  m³/min (cfm)  m³/min (cfm)  °C (°F)





Alternator Physical [	)ata		
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	g Data		
Overspeed: rpm		2250	
Voltage Regulation: (Steady s	rate)	+/- 0.5	
Wave Form NEMA = TIF:		50	
Wave Form IEC = THF:		2	
Total Harmonic content LL/LN	<b>\</b> :	4	
D 1: 1 . C		EN61000-6	
Radio Interference:			
Radio Interference: Radiant Heat: 50 Hz	kW (Btu/min)		

### Voltage Code

Motor Starting Capability*	kVA				
Short Circuit Capacity	%	300	300	300	300
Reactances	Xd				
	X'd	0.172	0.185	0.205	0.153
	X"d	0.13	0.13	0.143	0.107

Alternator Performance Data 60 Hz								
		480/277 V	380/220 V			440/254 V		
Voltage Code		240/139 V	240/139 V			220/127 V		
Motor Starting Capability*	kVA	880	572	677	629	751		
Short Circuit Capacity	%	300	300	300	300	300		
Reactances	Xd	3.06	4.886	4.08	4.41	3.645		
	X'd	0.18	0.28	0.23	0.25	0.21		
	X"d	0.123	0.197	0.164	0.178	0.147		

Reactances shown are applicable to prime ratings.

<sup>\*</sup>Based on 30% voltage dip at 0.6 power factor.





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	s 60 Hz				
		Prime		Standby	
Voltage Code	kVA	kW	kVA	kW	

	Prime		Standby	
Voltage Code	kVA	kW	kVA	kW
480/277V	400	320	437.5	350
440/254V	400	320	437.5	350
416/240V				
400/230V				
380/220V	400	320	437.2	349.76
240/139V	400	320	437.5	350
240/120V				
230/115V				
220/127V	400	320	437.5	350
220/110V				
208/120V				
240/120				
220/110				





Optional LS Upgrade

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.