

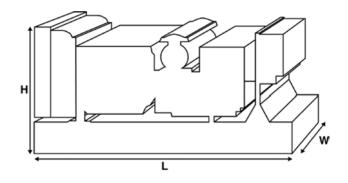
Optional LS Upgrade

Output Ratings					
Voltage, Frequency		Prime	Standby		
400/230V, 50 Hz	kVA	770	850		
	kW	616	680		
400/2771/ 6011-	kVA				
480/277V, 60 Hz	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	4130 (162.6)			
Width	mm	1690 (66.5)			
Height	mm	2569 (101.1)			
Weight (Dry)	kg	4930 (10869)			
Weight (Wet)	kg	5040 (11111)			

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

Optional LS Upgrade



Ratings and Perfo	rmance Data				
Engine Make		Perkins			
Engine Model:		2806A-E18TTAG5			
Alternator Make		Leroy Somer			
Alternator Model:		LL7224L			
Control Panel:		PowerWizard 2.1+			
Base Frame:		Heavy Duty Fabricated S	teel		
Circuit Breaker Type:		3 Pole ACB/MCCB			
Frequency:		50 HZ	60 HZ		
Engine Speed: RPM	rpm	1500			
Fuel Tank Capacity:	litres (US gal)	1702 (449.62)			
Fuel Consumption Prime	litres (US gal)	160.3 (42.3)			
Fuel Consumption Standl	by litres (US gal)	179.9 (47.5)			
Engine Technical [Data				
No. of Cylinders		6			
Alignment		IN LINE			
Cycle		4 STROKE			
Bore	mm (in)	145 (5.7)	145 (5.7)		
Stroke	mm (in)	183 (7.2)	183 (7.2)		
Induction		TURBOCHARGED AIR TO	TURBOCHARGED AIR TO AIR CHARGE COOLED		
Cooling Method		WATER			
Governing Type		ELECTRONIC			
Governing Class		ISO 8528 G3			
Compression Ratio		14.0:1			
Displacement	L (cu. in)	18.1 (1104.5)			
Moment of Inertia:	kg m² (lb/in²)	3.59 (12268)			
Voltage		24			
Ground		Negative			
Battery Charger Amps		50			
Engine Weight Dry	kg (lb)	2361 (5205)			
Engine Weight Wet	kg (lb)	2477 (5461)			
Engine Performar	nce Data	50 Hz	60 Hz		
Engine Speed	rpm	1500			
Gross Engine Power Prime		671 (900)			
Gross Engine Power Stand		739 (991)			
BMEP Prime	kPa (psi)	2961 (429.4)			
BMEP Standby	kPa (psi)	3261 (472.9)			





Fuel System					
Fuel Filter Type:			Eco Replaceable	Element	
Recommended Fuel:			Class A2 Diesel		
Fuel Consumption at		110 % Load	100 % Load	75 % Load	50 % Load
50 Hz Prime:	I/hr (US gal/hr)	179.9 (47.5)	160.3 (42.3)	117.6 (31.1)	80.9 (21.4)
50 Hz Standby	l/hr (US gal/hr)	-	179.9 (47.5)	130.3 (34.4)	88 (23.2)
60 Hz Prime	I/hr (US gal/hr)				
60 Hz Standby	l/hr (US gal/hr)	-			

(Based on diesel fuel with a specific gravity of 0.85 and conforming to BS2869 classA2,EN590 $\,$

Air System		50 Hz	60 Hz	
Air Filter Type:		·	Non Canister	
Combustion Air Flow Prime	m³/min (cfm)	58 (2048)		
Combustion Air Flow Standby	m³/min (cfm)	62 (2190)		
Max. Combustion Air Intake Restriction	kPa	3.7 (14.9)		

Cooling System		50 Hz	60 Hz	
Cooling System Capacity	l (US gal)	109.5 (28.9)		
Water Pump Type:			Centrifugal	
Heat Rejected to Water & Lube Oil: Prime	kW (Btu/min)	186 (10578)		
Heat Rejected to Water & Lube Oil: Standby	kW (Btu/min)	205 (11658)		
Heat Radiation to Room*: Prime	kW (Btu/min)	130.7 (7433)		
Heat Radiation to Room*: Standby	kW (Btu/min)	143.1 (8138)		
Radiator Fan Load:	kW (hp)	27.6 (37)		
Radiator Cooling Airflow:	m³/min (cfm)			
External Restriction to Cooling Airflow:	Pa (in H2O)	125 (0.5)		

^{*:} 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 Sys	tem	
Oil Filter Type:		Eco, Full flow
Total Oil Capacity:	I (US gal)	68 (18)
Oil Pan Capacity:	l (US gal)	56 (14.8)
Oil Type:		API CH4 / CI4
Oil Cooling Method:		WATER

Exhaust System		50 Hz	60 Hz
Maximum Allowable Back Pressure:	kPa (in Hg)	8.5 (2.5)	
Exhaust Gas Flow: Prime	m³/min (cfm)	132 (4662)	
Exhaust Gas Flow: Standby	m³/min (cfm)	142 (5015)	
Exhaust Gas Temperature: Prime	°C (°F)	464 (867)	
Exhaust Gas Temperature: Standby	°C (°F)	474 (885)	





Alternator Physical	Data						
No. of Bearings:					1		
Insulation Class:					Н		
Winding Pitch:					2/3		
Winding Code					6S		
Wires:					6		
Ingress Protection Rating:					IP23		
Excitation System:					AREP		
AVR Model:					R450M		
dependant on voltage code selected	b						
Alternator Operatin	g Data	1					
Overspeed: rpm					2250		
Voltage Regulation: (Steady state)		%		+/- 0.5			
Wave Form NEMA = TIF:			50				
Wave Form IEC = THF:		%			2		
Total Harmonic content LL/L	_N:	%	4				
Radio Interference:			EN61000-6				
Radiant Heat: 50 Hz		kW (Btu/min)			36.1 (2053)		
Radiant Heat: 60 Hz		kW (Btu/min)					
Alternator Performa	ance D	ata 50 Hz:					
			415/240 V	400/230 V	380/220 V		
Voltage Code							
Motor Starting Capability*	kVA		2268	2117	1924		
Short Circuit Capacity**	%		300	300	300	300	
Reactances	Xd		2.971	3.198	3.544		
	X'd		0.145	0.156	0.173		

Alternator Performance Data 60 Hz

X"d

Voltage Code

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

0.125

0.125

0.138

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	770	616	850	680	
400/230V	770	616	850	680	
380/220V	770	616	850	680	
230/115V					
220/127V					
220/110V					
200/115V					
240V					
230V					
220V					
Output Ratings					
- Output Hattings	700112	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					





Optional LS Upgrade

Dealer Contact Details



01953 454540 www.stuartgroup.ltd.uk enquiries@stuartgroup.info









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.