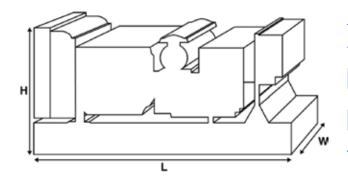


Output Ratings					
Voltage, Frequency		Prime	Standby		
	kVA kW				
480/277V, 60 Hz	kVA kW	850 680	937.5 750		



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	2570 (101.2)			
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



Engine Make		Perkins		
Engine Model:		2806A-E18TTAG7		
Alternator Make		Leroy Somer		
Alternator Model:		LL7224L		
Control Panel:		FG100		
Base Frame:		Heavy Duty Fabricated St	teel	
Circuit Breaker Type:		3 Pole ACB/MCCB		
Frequency:		50 HZ	60 HZ	
Engine Speed: RPM	rpm		1800	
Fuel Tank Capacity:	litres (US gal)	1702 (449.62)		
Fuel Consumption Prime	litres (US gal)/hr		183.3 (48.4)	
Fuel Consumption Stand	lby litres (US gal)/hr		204.7 (54.1)	
Engine Technical I	Data			
No. of Cylinders		6		
Alignment		IN LINE		
Cycle		4 STROKE		
Bore	mm (in)	145 (5.7)		
Stroke mm (in)		183 (7.2)		
Induction		TURBOCHARGED AIR TO	AIR CHARGE COOLED	
Cooling Method		WATER		
Governing Type		ELECTRONIC		
Governing Class		ISO 8528 G2		
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 Performa	nce Data	50 Hz	60 Hz	
Engine Speed	rpm	JU 112	1800	
Gross Engine Power Prim			746 (1000)	
Gross Engine Power Stan			821 (1101)	
BMEP Prime			2743 (397.8)	
BMEP Standby	kPa (psi) kPa (psi)		3019 (437.8)	

Maximum Allowable Back Pressure:

Exhaust Gas Flow: Prime

Exhaust Gas Flow: Standby

Exhaust Gas Temperature: Prime

Exhaust Gas Temperature: Standby

kPa (in Hg)

m³/min (cfm)

m³/min (cfm)

°C (°F)

 $^{\circ}\text{C (}^{\circ}\text{F)}$



8.5 (2.5)

152 (5368)

160 (5650)

452 (846)

473 (883)

Fuel System				Eco Replaceable	Flement	
Fuel Filter Type:				Class A2 Diesel	LICITICIT	
Recommended Fuel:			110 % Load		75 % Load	50 % Load
Fuel Consumption at			110 % LOad	100 % Load	/ 5 % LOAU	20 % LOSG
50 Hz Prime:	I/hr (US gal/hr)					
50 Hz Standby	l/hr (US gal/hr)		-	1000 (1000)	1010(050)	0.1.1.(0.1.1)
60 Hz Prime	l/hr (US gal/hr)		204.7 (54.1)	183.3 (48.4)	134.8 (35.6)	91.1 (24.1)
60 Hz Standby	l/hr (US gal/hr)		- DC2060 L A2E	204.7 (54.1)	149.3 (39.4)	99.7 (26.3)
(Based on diesel fuel with	a specific gravity of 0.85	and conforming	to BS2869 classA2,E	N590		
Air System			50	Hz	60 Hz	
Air Filter Type:					Non Canister	
Combustion Air Flow F	Prime m	³/min (cfm)			69 (2437)	
Combustion Air Flow S	Standby m	³/min (cfm)			71 (2507)	
Max. Combustion Air Ir	ntake Restriction kP	a			3.7 (14.9)	
Cooling System			50	 Hz	60 Hz	
Cooling System Capac		l (US gal)			109.5 (28.9	9)
Water Pump Type:	,	, , ,			Centrifugal	
Heat Rejected to Water	r & Lube Oil: Prime	kW (Btu/min)		211 (11999)		9)
Heat Rejected to Water		kW (Btu/min)			232 (1319	4)
Heat Radiation to Roor		kW (Btu/min)			162 (9213)
Heat Radiation to Roor	m*: Standby	kW (Btu/min)			179 (7833)
Radiator Fan Load:	,	kW (hp)			31.5 (42.2)	
Radiator Cooling Airflo	oW:	m³/min (cfm)			899.3 (317	
External Restriction to		Pa (in H2O)			125 (0.5)	
*: Heat radiated from eng Designed to operate in ar Contact your local FG Wil:	mbient conditions up to		e conditions.			
Lubrication Syst	tem					
Oil Filter Type:					Spin-On, Full Flow	
Total Oil Capacity:	l (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	<u></u> Нz	60 Hz	



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:	AREP
AVR Model:	R450M
* dependant on voltage code selected	
Alternator Operating Data	
Overspeed: rpm	2250

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:	%	4
Radio Interference:		EN61000-6
Radiant Heat: 50 Hz	kW (Btu/min)	0 ()
Radiant Heat: 60 Hz	kW (Btu/min)	42 (2388)

Alternator Performance Data 50 Hz:

Voltage Code

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

Alternator Performa	ance Data 6	0 Hz				
		480/277 V	380/220 V			440/254 V
Voltage Code		240/139 V				220/127 V
Motor Starting Canability*	kVA	2501	1616			2129
Motor Starting Capability* Short Circuit Capacity**	%	300	300	300	300	300
Reactances	Xd	2.941	4.528			3.501
	X'd	0.144	0.221			0.171
	X"d	0.114	0.177			0.137

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	5 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	850	680	937.5	750		
440/254V	850	680	937.5	750		
416/240V						
400/230V						
380/220V	820	656	905	724		
240/139V	850	680	937.5	750		
240/120V						
230/115V						
220/127V	850	680	937.5	750		
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

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.