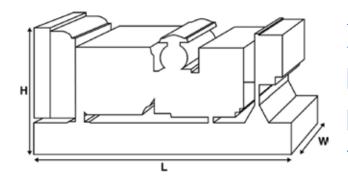


Output Ratings						
Voltage, Frequency		Prime	Standby			
	kVA kW					
480/277V, 60 Hz	kVA kW	812.5 650	895 716			



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	4869 (10734)			
Weight (Wet)	kg	4979 (10977)			

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-E18TTAG6			
Alternator Make		Leroy Somer LL7224J FG100			
Alternator Model:					
Control Panel:					
Base Frame:		Heavy Duty Fabricated S	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		172.8 (45.6)		
Fuel Consumption Stand	by litres (US gal)/hr		192 (50.7)		
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	·		714 (957)		
Gross Engine Power Stan			785 (1053)		
BMEP Prime			2626 (380.8)		
BMEP Standby	kPa (psi) kPa (psi)		2886 (418.6)		

Exhaust Gas Flow: Prime

Exhaust Gas Flow: Standby

Exhaust Gas Temperature: Prime

Exhaust Gas Temperature: Standby

m<sup>3</sup>/min (cfm) m<sup>3</sup>/min (cfm)

°C (°F)

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



143 (5050)

152 (5368)

435 (815)

455 (851)

5 LEU -				F D   11	Flancas	
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)					
50 Hz Standby	l/hr (US gal/hr)		-			
60 Hz Prime	l/hr (US gal/hr)	_		172.8 (45.6)	128.5 (33.9)	88.5 (23.4)
50 Hz Standby I/hr (US gal/hr)			-	192 (50.7)	141.5 (37.4)	96.2 (25.4)
(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 Prime m <sup>3</sup> ,		³/min (cfm)			66 (2331)	
Combustion Air Flow Standby m <sup>3</sup> ,		³/min (cfm)			69 (2437)	
Max. Combustion Air Intake Restriction kPa		<sup>o</sup> a			3.7 (14.9)	
Cooling System			50	Hz	60 Hz	
Cooling System Capacity		I (US gal)	,	109.5 (28.9)		9)
Water Pump Type:				Centrifugal		
Heat Rejected to Wate	r & Lube Oil: Prime	kW (Btu/min)		201 (11431)		
Heat Rejected to Wate		kW (Btu/min)		217 (12341)		
Heat Radiation to Roor	m*: Prime	kW (Btu/min)		157 (8928)		
Heat Radiation to Roor	m*: Standby	kW (Btu/min)		173 (7492)		
Radiator Fan Load:		kW (hp)		31.5 (42.2)		
Radiator Cooling Airflo	ow:	m³/min (cfm)		899.3 (31759)		
External Restriction to	Cooling Airflow:	Pa (in H2O)		125 (0.5)		
*: Heat radiated from eng Designed to operate in a Contact your local FG Wil	mbient conditions up to		e conditions.			
Lubrication Sys	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	Hz	60 Hz	
		in Hg)			8.5 (2.5)	



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	
Overchood: rom	2250

<b>Alternator Operating Data</b>		
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)	
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 Performance Data 60 Hz							
		480/277 V	380/220 V			440/254 V	
Voltage Code		240/139 V				220/127 V	
Motor Starting Capability*	kVA	2512	1630			2142	
Short Circuit Capacity**	%	300	300	300	300	300	
Reactances	Xd	2.672	3.83			3.179	
	X'd	0.132	0.189			0.157	
	X"d	0.105	0.151			0.125	

Reactances shown are applicable to prime ratings.

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

<sup>\*\*</sup> With optional independant excitation system (PMG / AUX winding)



<b>Output Ratings</b>	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	660 Hz				
		Prime		Standby	
Voltage Code	kVA	kW	kVA	kW	
480/277V	812.5	650	895	716	
440/254V	812.5	650	895	716	
416/240V					

		riiiie		Staridby	
Voltage Code	kVA	kW	kVA	kW	
480/277V	812.5	650	895	716	
440/254V	812.5	650	895	716	
416/240V					
400/230V					
380/220V	730	584	805	644	
240/139V	812.5	650	895	716	
240/120V					
230/115V					
220/127V	812.5	650	895	716	
220/110V					
208/120V					
240/120					
220/110					





Dealer Conta	act 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.