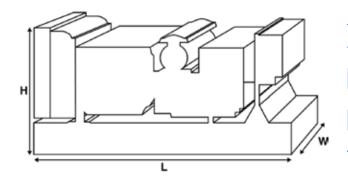


Output Ratings						
Voltage, Frequency		Prime	Standby			
400/230 V, 50 Hz	kVA kW	600 480	660 528			
	kVA					
	kW					



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	3900 (153.5)		
Width	mm	1461 (57.5)		
Height	mm	2156 (84.9)		
Weight (Dry)	kg	4171 (9195)		
Weight (Wet)	kg	4239 (9345)		

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 Perfo	rmance Data				
Engine Make		Perkins			
Engine Model:		2806A-E18TAG1A			
Alternator Make		FG Wilson			
Alternator Model:		FGL60050			
Control Panel:		FG100			
Base Frame:		Heavy Duty Fabricated	Steel		
Circuit Breaker Type:		3 Pole MCCB			
Frequency:		50 HZ	60 HZ		
Engine Speed: RPM	rpm	1500			
Fuel Tank Capacity:	litres (US gal)	1132 (299.04)			
Fuel Consumption Prime	litres (US gal)/hr	118.3 (31.3)			
Fuel Consumption Stand	oy litres (US gal)/hr	130.7 (34.5)			
Engine Technical [	Data				
No. of Cylinders		6			
Alignment		IN LINE			
Cycle		4 STROKE			
Bore	mm (in)	145 (5.7)			
Stroke mm (in)		183 (7.2)	183 (7.2)		
Induction	Induction		O AIR CHARGE COOLED		
Cooling Method		WATER			
Governing Type		ELECTRONIC			
Governing Class		ISO 8528 G2			
Compression Ratio		14.5:1			
Displacement	L (cu. in)	18.1 (1104.5)			
Moment of Inertia:	kg m² (lb/in²)	7.05 (24091)			
Voltage		24			
Ground		Negative			
Battery Charger Amps		70			
Engine Weight Dry	kg (lb)	2050 (4519)			
Engine Weight Wet	kg (lb)	2158 (4758)			
Engine Performar	nce Data	50 Hz	60 Hz		
Engine Speed	rpm	1500			
Gross Engine Power Prime		539.7 (724)			
Gross Engine Power Stand		592.7 (795)			
BMEP Prime	kPa (psi)	2381 (345.4)			
BMEP Standby	kPa (psi)	2615 (379.3)			



<b>Fuel System</b>					
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:	l/hr (US gal/hr)	130.7 (34.5)	118.3 (31.3)	88.8 (23.5)	61.1 (16.1)
50 Hz Standby	l/hr (US gal/hr)	-	130.7 (34.5)	97.4 (25.7)	66.6 (17.6)
60 Hz Prime	l/hr (US gal/hr)				
60 Hz Standby	l/hr (US gal/hr)	-			

(Based on diesel fuel with a specific gravity of 0.86 and conforming to BS2869 classA2,EN590  $\,$ 

Air System		50 Hz		60 Hz	
Air Filter Type:		Non Canister			
Combustion Air Flow Prime	m³/min (cfm)	34 (1201)			
Combustion Air Flow Standby	m³/min (cfm)	36 (1271)			
Max. Combustion Air Intake Restriction	kPa	6.4 (25.7)			

Cooling System		50 Hz	60 Hz	
Cooling System Capacity	l (US gal)	68.5 (18.1)		
Water Pump Type:			Centrifugal	
Heat Rejected to Water & Lube Oil: Prime	kW (Btu/min)	208 (11829)		
Heat Rejected to Water & Lube Oil: Standby	kW (Btu/min)	222 (12625)		
Heat Radiation to Room*: Prime	kW (Btu/min)	64.7 (3679)		
Heat Radiation to Room*: Standby	kW (Btu/min)	71.4 (4060)		
Radiator Fan Load:	kW (hp)	9 (12.1)		
Radiator Cooling Airflow:	m³/min (cfm)	373.2 (13179)		
External Restriction to Cooling Airflow:	Pa (in H2O)	125 (0.5)		

<sup>\*:</sup> 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 System				
Oil Filter Type:		Eco, Full flow		
Total Oil Capacity:	I (US gal)	62 (16.4)		
Oil Pan Capacity:	l (US gal)	53 (14)		
Oil Type:		API CH4 / CI4		
Oil Cooling Method:		WATER		

<b>Exhaust System</b>		50 Hz	60 Hz
Maximum Allowable Back Pressure:	kPa (in Hg)	6.9 (2)	
Exhaust Gas Flow: Prime	m³/min (cfm)	96 (3390)	
Exhaust Gas Flow: Standby	m³/min (cfm)	104 (3673)	
Exhaust Gas Temperature: Prime	°C (°F)	568 (1054)	
Exhaust Gas Temperature: Standby	°C (°F)	571 (1060)	



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:	SHUNT
AVR Model:	R150

 $<sup>\</sup>ensuremath{^*}$  dependant on voltage code selected

<b>Alternator Operating Data</b>		
Overspeed: rpm		2250
Voltage Regulation: (Steady state)	%	+/- 0.8
Wave Form NEMA = TIF:		50
Wave Form IEC = THF:	%	2
Total Harmonic content LL/LN:	%	1.5
Radio Interference:		EN61000-6
Radiant Heat: 50 Hz	kW (Btu/min)	29.4 (1672)
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	1220	1139	1035			
Short Circuit Capacity**	%	270	270	270	270		
Reactances	Xd	2.738	2.947	3.265			
	X'd	0.137	0.148	0.164			
	X"d	0.103	0.103	0.115			

### Alternator Performance Data 60 Hz

Voltage Code

Motor Starting Capability*	kVA					
Short Circuit Capacity**	%	270	270	270	270	270
Reactances	Xd					
	X'd					
	X"d					

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)



Output Ratings	5 50 Hz					
		Prime	Standby			
Voltage Code	kVA	kW	kVA	kW		
415/240V	600	480	660	528		
400/230V	600	480	660	528		
380/220V	600	480	660	528		
230/115V						
220/127V						
220/110V						
200/115V						
240V						
230V						
220V						
Output Ratings	: 60 Hz					
- Output natings	00112	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						





D	ealer	Contac	t Detail:	S			

### **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.