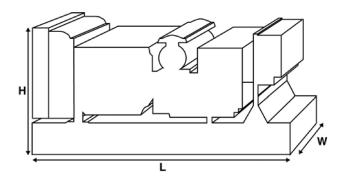


Output Ratings					
Voltage, Frequency		Prime	Standby		
400/230V, 50 Hz 480/277V, 60 Hz	kVA	650	715		
	kW kVA	520	572		
	kW				



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	4454 (9819)			
Weight (Wet)	kg	4522 (9969)			

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 Perf	formance Data						
Engine Make		Perkins					
Engine Model:		2806A-E18TAG2					
Alternator Make		FG Wilson					
Alternator Model:		FG33A560					
Control Panel:		PowerWizard 1.1+					
Base Frame:		Heavy Duty Fabricated S	iteel				
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 Prin	ne litres (US gal)	127.6 (33.7)					
Fuel Consumption Star	ndby litres (US gal)	142 (37.5)					
Engine Technica	l 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		TURBOCHARGED AIR TO	TURBOCHARGED AIR TO 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 Perform	ance Data	50 Hz	60 Hz				
Engine Speed	rpm	1500					
Gross Engine Power Pr	ime kW (hp)	584 (783)					
Gross Engine Power St	andby kW (hp)	628 (842)					
BMEP Prime	kPa (psi)	2577 (373.7)					
BMEP Standby	kPa (psi)	2771 (401.9)					



Fuel System							
Fuel Filter Type:				Ec	o Replaceable	Element	
Recommended Fuel:				Cl	ass A2 Diesel		
Fuel Consumption at			110 % Load	10	00 % Load	75 % Load	50 % Load
50 Hz Prime:	I/hr (US gal/	nr)	142 (37.5)	12	27.6 (33.7)	94.8 (25)	66 (17.4)
50 Hz Standby	l/hr (US gal/	nr)	-	14	12 (37.5)	104 (27.5)	71.5 (18.9)
60 Hz Prime	I/hr (US gal/	nr)					
60 Hz Standby	l/hr (US gal/	nr)	-				
(Based on diesel fuel with a spe	ecific gravity of	0.85 and conformin	g to BS2869 class	A2,EN590			
Air System			50 Hz		60 Hz		
Air Filter Type:						Non Canister	
Combustion Air Flow Prime		m³/min (cfm)	3	37 (1307)			
Combustion Air Flow Stand	hv	m³/min (cfm)		40 (1413)			

Air Filter Type:			Non Canister			
Combustion Air Flow Prime	m³/min (cfm)	37 (1307)				
Combustion Air Flow Standby	m³/min (cfm)	40 (1413)				
Max. Combustion Air Intake Restriction	kPa	6.4 (25.7)				
Cooling System		50 Hz	60 Hz			
Cooling System Capacity	I (US gal)	68.5 (18.1)				
Water Pump Type:			Centrifugal			
Heat Rejected to Water & Lube Oil: Prime	kW (Btu/min)	202 (11488)				
Heat Rejected to Water & Lube Oil: Standl	oy kW (Btu/min)	219 (12454)				

water rump type.		Certanagai
Heat Rejected to Water & Lube Oil: Prime	kW (Btu/min)	202 (11488)
Heat Rejected to Water & Lube Oil: Standby	kW (Btu/min)	219 (12454)
Heat Radiation to Room*: Prime	kW (Btu/min)	69.3 (3941)
Heat Radiation to Room*: Standby	kW (Btu/min)	76.1 (4328)
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)

^{*:} 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:	I (US gal)	53 (14)			
Oil Type:		API CH4 / CI4			
Oil Cooling Method:		WATER			

Exhaust System		50 Hz	60 Hz
Maximum Allowable Back Pressure:	kPa (in Hg)	6.9 (2)	
Exhaust Gas Flow: Prime	m³/min (cfm)	106 (3743)	
Exhaust Gas Flow: Standby	m³/min (cfm)	114 (4026)	
Exhaust Gas Temperature: Prime	°C (°F)	555 (1031)	
Exhaust Gas Temperature: Standby	°C (°F)	553 (1027)	



Alternator Physical	Data					
No. of Bearings:				1		
Insulation Class:				Н		
Winding Pitch:				2/3		
Winding Code				R16		
Wires:				6		
Ingress Protection Rating:				IP21		
Excitation System:				SHUNT		
AVR Model:				A-OPT-04E		
Alternator Operatin	 ng Data					
Overspeed: rpm				2250		
Voltage Regulation: (Steady	state)			+/- 1.0		
Wave Form NEMA = TIF:				50		
Wave Form IEC = THF:			2			
Total Harmonic content LL/L	_N:		3			
Radio Interference:			EN61000-6			
Radiant Heat: 50 Hz	kW (Btu/min)		31.1 (1769)			
Radiant Heat: 60 Hz	kW (Btu/min)					
Alternator Performa	 ance Data 50 Hz:					
		415/240 V	400/230 V	380/220 V		
Voltage Code						
			230 V			
Motor Starting Capability*	kVA	1763	1650	1488		
Short Circuit Capacity**	%	300	300	300	300	
Reactances	Xd	2.327	2.504	2.775		
	X'd	0.106	0.114	0.126		
	X"d	0.089	0.089	0.099		

Voltage Code

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

Reactances shown are applicable to prime ratings.

^{*}Based on 30% voltage dip at 0.4 power factor.

^{**} With optional independant excitation system (PMG / AUX winding)



Output Ratings 50 Hz							
		Prime		Standby			
Voltage Code	kVA	kW	kVA	kW			
415/240V	650	520	715	572			
400/230V	650	520	715	572			
380/220V	650	520	715	572			
230/115V	650	520	715	572			
220/127V							
220/110V							
200/115V							
240V							
230V							
220V							
Output Ratings	60 Hz						
- Catput 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							





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.