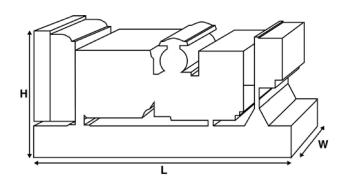


Output Ratings						
Voltage, Frequency		Prime	Standby			
400V, 50 Hz	kVA	650	715			
	kW	520	572			
400)/ 60 -	kVA					
480V, 60 Hz	kW					



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	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 Per	formance Data		
Engine Make		Perkins	
Engine Model:		2806A-E18TAG2	
Alternator Make		FG Wilson	
Alternator Model:		FG33A560	
Control Panel:		Power Wizard 1+	
Base Frame:		Heavy Duty Fabricated St	teel
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)	
Induction		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)	



Eco Replaceable Ele Class A2 Diesel 100 % Load	ment 75 % Load	
	75 % Load	50.04
100 % Load	75 % Load	=0.071
	7 5 70 LOGG	50 % Load
127.6 (33.7)	94.8 (25)	66 (17.4)
142 (37.5)	104 (27.5)	71.5 (18.9)
	, ,	

Air System		50 Hz	60 Hz	
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		50 Hz		60 Hz	
Cooling System Capacity	I (US gal)	68.5 (18.1)			
Water Pump Type:			Centrifug	al	
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:	l (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)	



No. of Bearings:	Data				1	
Insulation Class:					Н	
Vinding Pitch:					2/3	
Winding Code					R16	
Wires:					6	
Ingress Protection Rating:					IP21	
Excitation System:					SHUNT	
AVR Model:					A-OPT-04E	
Alternator Operatin	n Data					
Overspeed: rpm	g Data				2250	
Voltage Regulation: (Steady state)					+/- 1.0	
Wave Form NEMA = TIF:					50	
Wave Form IEC = THF:				2		
Total Harmonic content LL/LN:			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 Da	ata 50 Hz:				
			415/240 V	400/230 V	380/220 V	
Voltage Code						
				230 V		
Motor Starting Capability*	kVA		1763	1650	1488	
CL CC CC C	%		300	300	300	300
Short Circuit Capacity			2.327	2.504	2.775	
Reactances	Xd				0.136	
	Xd X'd		0.106	0.114	0.126	

300

300

300

300

Reactances shown are applicable to prime ratings.

kVA

%

Xd X'd X"d 300

Motor Starting Capability*

Short Circuit Capacity

Reactances

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



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							
Output Rutings	Output Ratings 60 Hz 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.