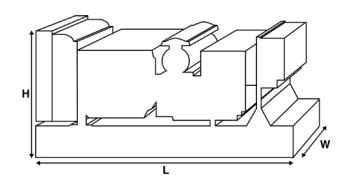


Output Ratings						
Voltage, Frequency		Prime	Standby			
400V, 50 Hz	kVA	230	250			
	kW	184	200			
480V, 60 Hz	kVA					
	kW					



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	2662 (104.8)			
Width	mm	1071 (42.2)			
Height	mm	1818 (71.6)			
Weight (Dry)	kg	2063 (4548)			
Weight (Wet)	kg	2096 (4621)			

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:		1506A-E88TAG2	1506A-E88TAG2			
Alternator Make		Marelli				
Alternator Model:		MJB250LB4				
Control Panel:		Power Wizard 1.1+				
Base Frame:  Circuit Breaker Type:  Frequency:		Heavy Duty Fabricated	Heavy Duty Fabricated Steel 3 Pole MCCB			
		3 Pole MCCB				
		50 HZ	60 HZ			
Engine Speed: RPM	rpm	1500				
Fuel Tank Capacity:	litres (US gal)	528 (139.48)				
Fuel Consumption Prim	ne litres (US gal)	46.9 (12.4)				
Fuel Consumption Star	ndby litres (US gal)	50.3 (13.3)				
	1-					
Engine Technica	l Data					
No. of Cylinders		6				
Alignment		IN LINE				
Cycle			4 STROKE			
Bore	mm (in)	112 (4.4)	149 (5.9) TURBOCHARGED AIR TO AIR CHARGE COOLED WATER			
Stroke	mm (in)					
Induction						
Cooling Method						
Governing Type		ELECTRONIC				
Governing Class		ISO 8528 G2				
Compression Ratio		16.1:1				
Displacement	L (cu. in)	8.8 (537)				
Moment of Inertia:	kg m² (lb/in²)	2.4031 (8212)				
Voltage		24				
Ground		Negative				
Battery Charger Amps		45				
Engine Weight Dry	kg (lb)	778 (1715)				
Engine Weight Wet	kg (lb)	800 (1764)				
Engine Perform	ance Data	50 Hz	60 Hz			
Engine Speed	rpm	1500				
Gross Engine Power Pri	me kW (hp)	213 (286)				
Gross Engine Power Sta	andby kW (hp)	236 (316)				
BMEP Prime	kPa (psi)	1935 (280.6)				
BMEP Standby	kPa (psi)	2144 (310.9)				



<b>Fuel System</b>					
Fuel Filter Type:			Replaceable Eler	ment	
Recommended Fuel:			Class A2 Diesel		
Fuel Consumption at		110 % Load	100 % Load	75 % Load	50 % Load
50 Hz Prime:	l/hr (US gal/hr)	50.3 (13.3)	46.9 (12.4)	36.3 (9.6)	24.5 (6.5)
50 Hz Standby	l/hr (US gal/hr)	-	50.3 (13.3)	39.2 (10.4)	26.6 (7)
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 0.85 and conforming to BS2869, class A2  $\,$ 

Air System Air Filter Type:		50 Hz	60 Hz
		Paper Element	
Combustion Air Flow Prime	m³/min (cfm)	14.4 (509)	
Combustion Air Flow Standby	m³/min (cfm)	15 (530)	
Max. Combustion Air Intake Restriction	kPa	6.2 (24.9)	

Cooling System		50 Hz	60 Hz
Cooling System Capacity	l (US gal)	30.7 (8.1)	
Water Pump Type:		Centrifug	al
Heat Rejected to Water & Lube Oil: Prime	kW (Btu/min)	93 (5289)	
Heat Rejected to Water & Lube Oil: Standby	kW (Btu/min)	99 (5630)	
Heat Radiation to Room*: Prime	kW (Btu/min)	27 (1535)	
Heat Radiation to Room*: Standby	kW (Btu/min)	28.1 (1598)	
Radiator Fan Load:	kW (hp)	7.7 (10.3)	
Radiator Cooling Airflow:	m³/min (cfm)	329.1 (11624)	
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:		Spin-on, Full flow			
Total Oil Capacity:	I (US gal)	39 (10.3)			
Oil Pan Capacity:	I (US gal)	36 (9.5)			
Oil Type:		API CI-4 0W-30			
Oil Cooling Method:		WATER			

<b>Exhaust System</b>		50 Hz	60 Hz
Maximum Allowable Back Pressure:	kPa (in Hg)	10 (3)	
Exhaust Gas Flow: Prime	m³/min (cfm)	34.4 (1215)	
Exhaust Gas Flow: Standby	m³/min (cfm)	35.7 (1261)	
Exhaust Gas Temperature: Prime	°C (°F)	467 (873)	
Exhaust Gas Temperature: Standby	°C (°F)	475 (887)	



<b>Alternator Physical</b>	Data					
No. of Bearings:					1	
Insulation Class:					Н	
Winding Pitch:					2/3	
Winding Code					M0	
Wires:					12	
Ingress Protection Rating:					IP23	
Excitation System:					SHUNT	
AVR Model:					Mark V	
Alternator Operation	ng Data					
Overspeed: rpm	<u>ig zata</u>				2250	
Voltage Regulation: (Steady	state)				+/- 0.5	
Wave Form NEMA = TIF:					50	
Wave Form IEC = THF:					2	
Total Harmonic content LL/	LN:				2	
Radio Interference:					EN 55011	
Radiant Heat: 50 Hz kW (Btu/min)				14.1 (802)		
Radiant Heat: 60 Hz		kW (Btu/min)				
Alternator Perform	ance Da	 ata 50 Hz:				
			415/240 V	400/230 V	380/220 V	
Voltage Code				230/115 V		
Voltage Code				230/115 V 230 V		
	kVA		403		337	
Motor Starting Capability*	kVA %		403	230 V	337 300	300
Voltage Code  Motor Starting Capability* Short Circuit Capacity Reactances				230 V 374		300
Motor Starting Capability* Short Circuit Capacity	%		300	230 V 374 300	300	300

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

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



Output Ratings	5 50 Hz				
		Prime		Standby	
Voltage Code	kVA	kW	kVA	kW	
415/240V	230	184	250	200	
400/230V	230	184	250	200	
380/220V	230	184	250	200	
230/115V	230	184	250	200	
220/127V					
220/110V					
200/115V					
240V					
230V					
220V					
Output Ratings	 60 Hz				
o a quanta mananga		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.