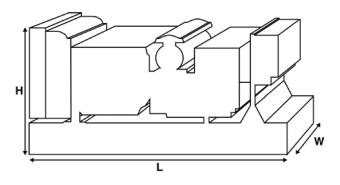


Output Ratings				
Voltage, Frequency		Prime	Standby	
400/230V, 50 Hz	kVA kW	250 200	275 220	
480/277V, 60 Hz	kVA kW			



Ratings at 0.8 power factor.

Please refer to the output ratings technical data section for specific generator set outputs per voltage.



Dimension	ns 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



Ratings and Perf	formance Data		
Engine Make	,	Perkins	
Engine Model:		1506A-E88TAG3	
Alternator Make		Marelli	
Alternator Model:		MJB250LB4	
Control Panel:		Power Wizard 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)	528 (139.48)	
Fuel Consumption Prin	ne litres (US gal)	53.2 (14.1)	
Fuel Consumption Star	ndby litres (US gal)	58.5 (15.5)	
<b>Engine Technica</b>	l Data		
No. of Cylinders		6	
Alignment		IN LINE	
Cycle		4 STROKE	
Bore	mm (in)	112 (4.4)	
Stroke	mm (in)	149 (5.9)	
Induction		TURBOCHARGED AIR TO	AIR CHARGE COOLED
Cooling Method		WATER	
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)	
<b>Engine Perform</b>	ance Data	50 Hz	60 Hz
Engine Speed	rpm	1500	
Gross Engine Power Pri	ime kW (hp)	236 (316)	
Gross Engine Power Sta	andby kW (hp)	258 (346)	
BMEP Prime	kPa (psi)	2144 (310.9)	
BMEP Standby	kPa (psi)	2344 (339.9)	



<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)	58.5 (15.5)	53.2 (14.1)	40.8 (10.8)	29.2 (7.7)
50 Hz Standby	l/hr (US gal/hr)	=	58.5 (15.5)	44.4 (11.7)	31.5 (8.3)
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		50 Hz	60 Hz	
Air Filter Type:		Paper Element		
Combustion Air Flow Prime	m³/min (cfm)	14.1 (498)		
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:			Centrifugal	
Heat Rejected to Water & Lube Oil: Prime	kW (Btu/min)	110 (6256)		
Heat Rejected to Water & Lube Oil: Standb	y kW (Btu/min)	112 (6369)		

31.1 (1769)

329.1 (11624)

7.7 (10.3)

125 (0.5)

Heat Radiation to Room\*: Standby

Radiator Fan Load:

Radiator Cooling Airflow:

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.

kW (Btu/min)

m³/min (cfm)

Pa (in H2O)

kW (hp)

<b>Lubrication Sys</b>	tem	
Oil Filter Type:		Spin-on, Full flow
Total Oil Capacity:	I (US gal)	39 (10.3)
Oil Pan Capacity:	l (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)	37.5 (1324)	
Exhaust Gas Flow: Standby	m³/min (cfm)	40.4 (1427)	
Exhaust Gas Temperature: Prime	°C (°F)	537 (999)	
Exhaust Gas Temperature: Standby	°C (°F)	558 (1036)	

External Restriction to Cooling Airflow: \*: Heat radiated from engine and alternator



<b>Alternator Physical</b>	Data					
No. of Bearings:					1	
Insulation Class:					Н	
Winding Pitch:					2/3	
Winding Code					MO	
Wires:					12	
Ingress Protection Rating:					IP23	
Excitation System:					SHUNT	
AVR Model:					Mark V	
Alternator Operatir	ng Data					
Overspeed: rpm	<u> </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)				16.1 (916)		
Radiant Heat: 60 Hz		kW (Btu/min)				
Alternator Perform	ance Da	nta 50 Hz:				
			415/240 V	400/230 V	380/220 V	,
Voltage Code				230/115 V		
				230 V		
Motor Starting Capability*	kVA		403	374	337	
Short Circuit Capacity**	%		300	300	300	300
Reactances	Xd		2.65	3.04	3.23	
	X'd		0.219	0.251	0.267	
	X"d		0.096	0.096	0.102	

300

300

300

300

Reactances shown are applicable to prime ratings.

Motor Starting Capability\*

Short Circuit Capacity\*\*

Reactances

kVA

%

Xd X'd X"d 300

<sup>\*</sup>Based on 30% voltage dip at 0 power factor.

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



<b>Output Ratings</b>	50 Hz				
		Prime		Standby	
Voltage Code	kVA	kW	kVA	kW	
415/240V	235	188	260	208	
400/230V	250	200	275	220	
380/220V	240	192	265	212	
230/115V	250	200	275	220	
220/127V					
220/110V					
200/115V					
240V					
230V					
220V					
Output Ratings	60 Hz				
- Catpat Hatings		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.