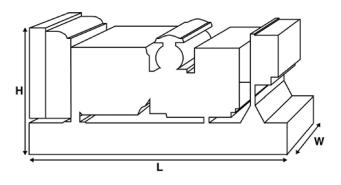


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Output Ratings					
Voltage, Frequency		Prime	Standby		
400/230V, 50 Hz	kVA kW	250 200	275 220		
480/277V, 60 Hz	kVA kW				



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



8 P	

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.



Engine Make		Perkins	Perkins			
Engine Model:		1506A-E88TAG3				
Alternator Make		Marelli	Marelli			
Alternator Model:		MJB250LB4				
Control Panel:		Power Wizard 1.1+				
Base Frame:		Heavy Duty Fabricated S	Steel			
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 Prime	litres (US gal)	53.2 (14.1)				
Fuel Consumption Standby	litres (US gal)	58.5 (15.5)				
Engine Technical Da	ata					
No. of Cylinders		6				
Alignment		IN LINE				
Cycle		4 STROKE				
	nm (in)	112 (4.4)	112 (4.4)			
			149 (5.9)			
Induction	· ·		TURBOCHARGED AIR TO AIR CHARGE COOLED			
Cooling Method		WATER	WATER			
Governing Type		ELECTRONIC				
Governing Class		ISO 8528 G2				
Compression Ratio		16.1:1				
Displacement L	. (cu. in)	8.8 (537)				
Moment of Inertia: k	g m² (lb/in²)	2.4031 (8212)				
Voltage		24				
Ground		Negative				
Battery Charger Amps		45	45			
Engine Weight Dry k	g (lb)	778 (1715)	778 (1715)			
Engine Weight Wet k	g (lb)	800 (1764)	800 (1764)			
Engine Performand	ee Data	50 Hz	60 Hz			
Engine Speed	rpm	1500	-			
Gross Engine Power Prime	kW (hp)	236 (316)				
Gross Engine Power Standb		258 (346)				
BMEP Prime	kPa (psi)	2144 (310.9)				
BMEP Standby	kPa (psi)	2344 (339.9)				

Exhaust System

Exhaust Gas Flow: Prime

Exhaust Gas Flow: Standby

Exhaust Gas Temperature: Prime

Exhaust Gas Temperature: Standby

Maximum Allowable Back Pressure:

kPa (in Hg)

m³/min (cfm)

m³/min (cfm)

°C (°F)

°C (°F)



Fuel System						
Fuel Filter Type:				Replaceable Ele	ment	
Recommended Fuel:				Class A2 Diesel		
Fuel Consumption at			110 % Load	100 % Load	75 % Load	50 % Load
50 Hz Prime:	l/hr (US gal/h	r)	58.5 (15.5)	53.2 (14.1)	40.8 (10.8)	29.2 (7.7)
50 Hz Standby	l/hr (US gal/h	r)	-	58.5 (15.5)	44.4 (11.7)	31.5 (8.3)
60 Hz Prime	l/hr (US gal/h	r)				
60 Hz Standby	l/hr (US gal/h	r)	-			
(Based on diesel fuel with	n a specific gravity of 0	1.85 and conforming	to BS2869, class A2			
Air System			50	Hz	60 Hz	
Air Filter Type:					Paper Element	
Combustion Air Flow I	Prime	m³/min (cfm)	14.1	(498)		
Combustion Air Flow S	Standby	m³/min (cfm)	15 (530)		
Max. Combustion Air I	ntake Restriction	kPa	6.2	(24.9)		
Cooling System	<u> </u>		50	Hz	60 Hz	
Cooling System Capac		l (US gal)	30.7	' (8.1)		
Water Pump Type:					Centrifugal	
Heat Rejected to Wate	er & Lube Oil: Prime	kW (Btu/min)	110	(6256)		
Heat Rejected to Wate	er & Lube Oil: Standb	y kW (Btu/min)	112	(6369)		
Heat Radiation to Roo	m*: Prime	kW (Btu/min)	29.6	(1683)		
Heat Radiation to Roo	m*: Standby	kW (Btu/min)	31.1	(1769)		
Radiator Fan Load:		kW (hp)	7.7	(10.3)		
Radiator Cooling Airflo	ow:	m³/min (cfm)	329	.1 (11624)		
External Restriction to	Cooling Airflow:	Pa (in H2O)	125	(0.5)		
*: Heat radiated from eng Designed to operate in a Contact your local FG Wi	mbient conditions up Ison Dealer for power		e conditions.			
Lubrication Sys Oil Filter Type:	telli				Spin-on, Full flow	
Total Oil Capacity:	I (US gal)				39 (10.3)	
Oil Pan Capacity:	I (US gal)				36 (9.5)	
он ган сарасиу.	i (05 gai)					
Oil Type:					API CI-4 0W-30	

50 Hz

37.5 (1324)

40.4 (1427) 537 (999)

558 (1036)

10 (3)

60 Hz



Alternator Physical	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 Operatir	ng Data						
Overspeed: rpm					2250		
Voltage Regulation: (Steady	state)				+/- 0.5		
Wave Form NEMA = TIF:					50		
Wave Form IEC = THF:				2			
Total Harmonic content LL/I	LN:				2		
Radio Interference:			EN 55011				
Radiant Heat: 50 Hz kW (Btu/min)		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

^{*}Based on 30% voltage dip at 0 power factor.

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

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Voltage Code kVA kWA kWA <t< th=""><th>Output Ratings</th><th>50 Hz</th><th></th><th></th><th>,</th><th></th></t<>	Output Ratings	50 Hz			,		
188			Prime		Standby		
400/230V 250 200 275 220 230 230 2375 220 230 230 235 230 230 235 230 230 235 230 230 235 230 230 235 230 230 235 230 230 235 230 230 235 230 230 235 230 230 235 230 230 235 230 230 235 230 230 235 230 230 235	Voltage Code	kVA	kW	kVA	kW		
380/220V 240 192 265 212 230/115V 250 200 275 220 220/127V 220/110V 220/115V 240V 230V 220V	415/240V	235	188	260	208		
230/115V 250 200 275 220 220/127V 220/110V 200/115V 240V 230V 270V Cutput Ratings 60 Hz Prime Standby Voltage Code kVA kW kVA kW 480/277V 440/254V 416/240V 420/230V 380/220V 240/139V 240/139V 240/120V 240/120V 250/115V 250/127V	400/230V	250	200	275	220		
220/127V 220/110V 200/115V 240V 230V 220V Cutput Ratings 60 Hz Prime Standby Voltage Code kM kM kW kM kM kW 480/277V 440/254V 416/240V 400/230V 380/220V 240/139V 220/127V 220/115V 220/117V 220/110V 220/110V	380/220V	240	192	265	212		
220/110V 200/115V 240V 230V 220V Coutput Ratings 60 Hz Prime Standby Voltage Code kVA kW kVA kW 480/277V 440/254V 416/240V 410/230V 380/220V 240/130V 220/110V 220/110V 220/110V 220/110V	230/115V	250	200	275	220		
200/115V 240V 230V 220V Output Ratings 60 Hz Prime Standby Voltage Code kVA kW kVA kW 480/277V 440/254V 416/240V 400/230V 380/220V 240/139V 220/127V 220/110V 220/110V 200/130V	220/127V						
240V 220V Cutput Ratings 60 Hz Prime Standby Voltage Code kVA kW kVA kW 480/277V 440/254V 416/240V 400/230V 380/220V 240/139V 220/117V 220/110V 208/120V	220/110V						
230V Cutput Ratings 60 Hz Prime Standby Voltage Code kVA kW kVA kW 480/277V 440/254V 416/240V 400/230V 380/220V 240/139V 220/115V 220/117V 220/110V 208/120V	200/115V						
Output Ratings 60 Hz Prime Standby Voltage Code RVA RWA RWA <th colspa<="" td=""><td>240V</td><td></td><td></td><td></td><td></td><td></td></th>	<td>240V</td> <td></td> <td></td> <td></td> <td></td> <td></td>	240V					
Output Ratings 60 Hz Prime Standby Voltage Code kVA kW 480/277V 440/254V 440/254V 416/240V 400/230V 380/220V 240/139V 240/120V 230/115V 220/127V 220/110V 208/120V	230V						
Voltage Code kVA kW kVA kW 480/277V 440/254V 416/240V 416/240V 400/230V	220V						
Voltage Code kVA kW kVA kW 480/277V 440/254V 416/240V 416/240V 400/230V	Output Ratings	60 Hz					
Voltage Code kVA kW kVA kW 480/277V 440/254V			Prime		Standby		
440/254V 416/240V 400/230V 380/220V 240/139V 240/120V 230/115V 220/127V 220/110V 208/120V	Voltage Code	kVA	kW	kVA	kW		
416/240V 400/230V 380/220V 240/139V 240/120V 230/115V 220/127V 220/110V 208/120V	480/277V						
400/230V 380/220V 240/139V 240/120V 230/115V 220/127V 220/110V 208/120V	440/254V						
380/220V 240/139V 240/120V 230/115V 220/127V 220/110V 208/120V	416/240V						
240/139V 240/120V 230/115V 220/127V 220/110V 208/120V	400/230V						
240/120V 230/115V 220/127V 220/110V 208/120V	380/220V						
230/115V 220/127V 220/110V 208/120V	240/139V						
220/127V 220/110V 208/120V	240/120V						
220/110V 208/120V	230/115V						
208/120V	220/127V						
	220/110V						
	208/120V						
240/120	240/120						
220/110	220/110						





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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.

FG Wilson is a trading name of Caterpillar (NI) Limited.