



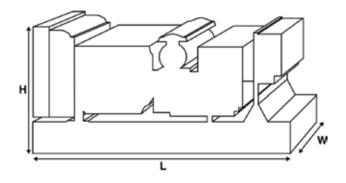
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Output Ratings			
Voltage, Frequency		Prime	Standby
400/230 V, 50 Hz	kVA	150	165
	kW	120	132
480/277V, 60 Hz	kVA	168.8	187.5
	kW	135.04	150



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	2450 (96.5)
Width	mm	1010 (39.8)
Height	mm	1544 (60.8)
Weight (Dry)	kg	1448 (3192)
Weight (Wet)	kg	1469 (3239)

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



Datings and David	iowana a Data		
Ratings and Perf	ormance Data	0.1:	
Engine Make		Perkins Perkins	
Engine Model:		1106A-70TAG2	
Alternator Make		Leroy Somer	
Alternator Model:		LL3114J	
Control Panel:		DCP-10	
Base Frame:		Heavy Duty Fabricated S	Steel
Circuit Breaker Type:		3 Pole MCCB	
Frequency:		50 HZ	60 HZ
Engine Speed: RPM	rpm	1500	1800
Fuel Tank Capacity:	litres (US gal)	327 (86.38)	
Fuel Consumption Prim	ne litres (US gal)/hr	32.4 (8.6)	37.5 (9.9)
Fuel Consumption Star	ndby litres (US gal)/hr	35.1 (9.3)	41.1 (10.9)
Engine Technical	 Data		
No. of Cylinders		6	
Alignment		IN LINE	
Cycle		4 STROKE	
Bore	mm (in)	105 (4.1)	
Stroke	mm (in)	135 (5.3)	
Induction		TURBOCHARGED AIR TO) AIR CHARGE COOLED
Cooling Method		WATER	
Governing Type		MECHANICAL	
Governing Class		ISO 8528 G2	
Compression Ratio		16.0:1	
Displacement	L (cu. in)	7 (427.8)	
Moment of Inertia:	kg m² (lb/in²)	1.53 (5228)	
Voltage	3 (")	12	
Ground		Negative	
Battery Charger Amps		85	
Engine Weight Dry	kg (lb)	788 (1737)	
Engine Weight Wet	kg (lb)	822 (1812)	
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Engine Performa	ance Data	50 Hz	60 Hz
Engine Speed	rpm	1500	1800
Gross Engine Power Pri	me kW (hp)	136 (182)	155.4 (208)
Gross Engine Power Sta	andby kW (hp)	149.1 (200)	171.8 (230)
BMEP Prime	kPa (psi)	1551 (225)	1477 (214.2)
BMEP Standby	kPa (psi)	1701 (246.7)	1633 (236.8)



Fuel System					
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:	I/hr (US gal/hr)	35.1 (9.3)	32.4 (8.6)	24.9 (6.6)	16.6 (4.4)
50 Hz Standby	l/hr (US gal/hr)	-	35.1 (9.3)	27.2 (7.2)	18.3 (4.8)
60 Hz Prime	I/hr (US gal/hr)	41.1 (10.9)	37.5 (9.9)	28.9 (7.6)	19.7 (5.2)
60 Hz Standby	I/hr (US gal/hr)	-	41.1 (10.9)	31.9 (8.4)	21.8 (5.8)

(Based on diesel fuel with a specific gravity of 0.85 and conforming to BS2869 classA2,EN590 $\,$

Air System		50 Hz	60 Hz
Air Filter Type:			Paper Element
Combustion Air Flow Prime	m³/min (cfm)	10 (351)	14.1 (498)
Combustion Air Flow Standby	m³/min (cfm)	10.6 (374)	14.7 (517)
Max. Combustion Air Intake Restriction	kPa	5 (20.1)	5 (20.1)
Cooling System		50 Hz	60 Hz

Cooling System		50 Hz	60 Hz
Cooling System Capacity	l (US gal)	21 (5.5)	21 (5.5)
Water Pump Type:			Centrifugal
Heat Rejected to Water & Lube Oil: Prime	kW (Btu/min)	69.1 (3930)	73.5 (4180)
Heat Rejected to Water & Lube Oil: Standby	kW (Btu/min)	75.7 (4305)	80 (4550)
Heat Radiation to Room*: Prime	kW (Btu/min)	20.3 (1154)	21.4 (1217)
Heat Radiation to Room*: Standby	kW (Btu/min)	22.4 (1274)	23.5 (716)
Radiator Fan Load:	kW (hp)	4.5 (6)	8 (10.7)
Radiator Cooling Airflow:	m³/min (cfm)	259.2 (9154)	316.2 (11167)
External Restriction to Cooling Airflow:	Pa (in H2O)	125 (0.5)	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.

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Oil Filter Type:		Spin-on, Full flow
Total Oil Capacity:	I (US gal)	16.5 (4.4)
Oil Pan Capacity:	I (US gal)	14.9 (3.9)
Oil Type:		API CH4 / CI4 15W-40
Oil Cooling Method:		WATER

Exhaust System		50 Hz	60 Hz
Maximum Allowable Back Pressure:	kPa (in Hg)	6 (1.8)	6 (1.8)
Exhaust Gas Flow: Prime	m³/min (cfm)	23.9 (843)	30.4 (1074)
Exhaust Gas Flow: Standby	m³/min (cfm)	25.3 (895)	32 (1130)
Exhaust Gas Temperature: Prime	°C (°F)	471 (880)	407 (765)
Exhaust Gas Temperature: Standby	°C (°F)	471 (880)	407 (765)



Alt t DI 1 I	<u> </u>					
Alternator Physical	Data					
No. of Bearings:					1	
Insulation Class:					H	
Winding Pitch:					2/3	
Winding Code				(5	
Wires:					12	
Ingress Protection Rating:				l l	P23	
Excitation System:					SHUNT	
AVR Model:					R250	
dependant on voltage code selected	d					
Alternator Operatin	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/l	_N:	%			2	
Radio Interference:					EN61000-6	
Radiant Heat: 50 Hz		kW (Btu/min)	10.2 (580)			
Radiant Heat: 60 Hz		kW (Btu/min)	11.1 (631)			
Alternator Performa	ance Da	ta 50 Hz:				
			415/240 V	400/230 V	380/220 V	220/127 V
Voltage Code				230/115 V	220/110 V	
				200/115 V		
Motor Starting Capability*	kVA		414	390	358	455
Short Circuit Capacity**	%		300	300	300	300
Reactances	Xd		2.834	3.05	3.38	2.185
	X'd		0.136	0.147	0.163	0.105
	X"d		0.088	0.088	0.098	0.063
Alternator Performa	ance Da	ta 60 Hz				,
		480/277 V	380/220 V	240/120 V		440/254 V
Voltage Code		240/139 V	220/110 V	208/120 V		220/127 V
Motor Starting Capability*	kVA	452	307	358	335	393
		300	300	300	300	300
Short Circuit Capacity**	%	300 2.86	300 4.326	300	300 4.119	300
Short Circuit Capacity** Reactances		300 2.86 0.138	300 4.326 0.208	300 3.808 0.183	300 4.119	300 3.404 0.164

Reactances shown are applicable to prime ratings.

^{*}Based on 30% voltage dip at 0.6 power factor.

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

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Output Ratings	s 50 Hz				
		Prime		Standby	
Voltage Code	kVA	kW	kVA	kW	
415/240V	150	120	165	132	
400/230V	150	120	165	132	
380/220V	150	120	165	132	
230/115V	150	120	165	132	
220/127V	130	104	143	114.4	
220/110V	150	120	165	132	
200/115V	150	120	165	132	
240V					
230V					
220V					

Output F	Ratings 60 Hz

Voltage Code kVA kW kVA 480/277V 168.8 135 187.5 440/254V 168.8 135 187.5	kW 150 150
440/254V 168.8 135 187.5	150
416/240V	
400/230V	
380/220V 160 128 176	140.8
240/139V 168.8 135 187.5	150
240/120V 168.8 135.04 187.5	150
230/115V	
220/127V 168.8 135.04 187.5	150
220/110V 160 128 176	140.8
208/120V 168.8 135.04 187.5	150
240/120	
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 at www.fgwilson.com.

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