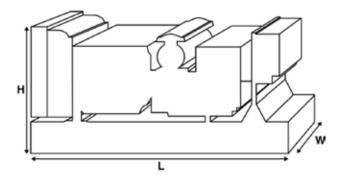


Output Ratings					
Voltage, Frequency		Prime	Standby		
400/230 V, 50 Hz	kVA	150	165		
	kW	120	132		
480/277V, 60 Hz	kVA	168.8	187.5		
	kW	135.04	150		



Ratings at 0.8 power factor.

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



Dimensions 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

BMEP Standby

kPa (psi)



Ratings and Perfor	rmance Data		
Engine Make		Perkins	
Engine Model:		1106A-70TAG2	
Alternator Make		Leroy Somer	
Alternator Model:		LL3114J	
Control Panel:		DCP-10	
Base Frame:		Heavy Duty Fabricated	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 Prime	litres (US gal)/hr	32.4 (8.6)	37.5 (9.9)
Fuel Consumption Standb	oy litres (US gal)/hr	35.1 (9.3)	41.1 (10.9)
Engine Technical D	Data		
No. of Cylinders	Juliu	6	
Alignment		IN LINE	
Cycle		4 STROKE	
Bore	mm (in)	105 (4.1)	
Stroke	mm (in)	135 (5.3)	
Induction	,	TURBOCHARGED AIR TO	O 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		12	
Ground		Negative	
Battery Charger Amps		85	
Engine Weight Dry	kg (lb)	788 (1737)	
Engine Weight Wet	kg (lb)	822 (1812)	
Engine Performar	nce Data	50 Hz	60 Hz
Engine Speed	rpm	1500	1800
Gross Engine Power Prime	·	136 (182)	155.4 (208)
Gross Engine Power Stand		149.1 (200)	171.8 (230)
BMEP Prime	kPa (psi)	1551 (225)	1477 (214.2)
	(53.)	1=01 (0.15=)	

1701 (246.7)

1633 (236.8)



Fuel Syste

Fuel Filter Type:			Replaceable Eleme	nt	
Recommended Fuel:			Class A2 Diesel		
Fuel Consumption at		110 % Load	100 % Load	75 % Load	50 % Load
50 Hz Prime:	l/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	l/hr (US gal/hr)	41.1 (10.9)	37.5 (9.9)	28.9 (7.6)	19.7 (5.2)
60 Hz Standby	l/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 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)



Alternator Physical	Data							
No. of Bearings:					1			
Insulation Class:				H	Н			
Winding Pitch:					2/3			
Winding Code				6	6			
Wires:					12			
Ingress Protection Rating:				l l	IP23			
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	2			
Total Harmonic content LL/LN: %		%			2			
Radio Interference:				EN61000-6				
Radio Interference:								
Radio Interference: Radiant Heat: 50 Hz		kW (Btu/min)			10.2 (580)			
Radiant Heat: 50 Hz Radiant Heat: 60 Hz	ance Dat	kW (Btu/min)						
Radiant Heat: 50 Hz	ance Dat	kW (Btu/min)	415/240 V	400/230 V 230/115 V	10.2 (580)	220/127 V		
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Performa Voltage Code	ance Dat	kW (Btu/min)	415/240 V	400/230 V	10.2 (580) 11.1 (631) 380/220 V	220/127 V 455		
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Performa Voltage Code Motor Starting Capability*		kW (Btu/min)	414	400/230 V 230/115 V 200/115 V	10.2 (580) 11.1 (631) 380/220 V 220/110 V			
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Performa Voltage Code	kVA	kW (Btu/min)		400/230 V 230/115 V 200/115 V 390 300	10.2 (580) 11.1 (631) 380/220 V 220/110 V	455		
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Performa Voltage Code Motor Starting Capability* Short Circuit Capacity**	kVA %	kW (Btu/min)	414	400/230 V 230/115 V 200/115 V 390	10.2 (580) 11.1 (631) 380/220 V 220/110 V 358 300	455 300		
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Performa Voltage Code Motor Starting Capability* Short Circuit Capacity**	kVA % Xd	kW (Btu/min)	414 300 2.834	400/230 V 230/115 V 200/115 V 390 300 3.05	10.2 (580) 11.1 (631) 380/220 V 220/110 V 358 300 3.38	455 300 2.185		
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Performa Voltage Code Motor Starting Capability* Short Circuit Capacity** Reactances	kVA % Xd X'd X"d	kW (Btu/min)	414 300 2.834 0.136	400/230 V 230/115 V 200/115 V 390 300 3.05 0.147	380/220 V 220/110 V 358 300 3.38 0.163	455 300 2.185 0.105		
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Performa Voltage Code Motor Starting Capability* Short Circuit Capacity**	kVA % Xd X'd X"d	kW (Btu/min) a 50 Hz:	414 300 2.834 0.136 0.088	400/230 V 230/115 V 200/115 V 390 300 3.05 0.147 0.088	380/220 V 220/110 V 358 300 3.38 0.163	455 300 2.185 0.105 0.063		
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Performa Voltage Code Motor Starting Capability* Short Circuit Capacity** Reactances	kVA % Xd X'd X"d	kW (Btu/min)	414 300 2.834 0.136	400/230 V 230/115 V 200/115 V 390 300 3.05 0.147	380/220 V 220/110 V 358 300 3.38 0.163	455 300 2.185 0.105		
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Performa Voltage Code Motor Starting Capability* Short Circuit Capacity** Reactances Alternator Performa	kVA % Xd X'd X"d	kW (Btu/min) a 50 Hz: a 60 Hz 480/277 V	414 300 2.834 0.136 0.088	400/230 V 230/115 V 200/115 V 390 300 3.05 0.147 0.088	380/220 V 220/110 V 358 300 3.38 0.163	455 300 2.185 0.105 0.063		
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Performa Voltage Code Motor Starting Capability* Short Circuit Capacity** Reactances Alternator Performa Voltage Code	kVA % Xd X'd X"d	kW (Btu/min) a 50 Hz: a 60 Hz 480/277 V 240/139 V	414 300 2.834 0.136 0.088	400/230 V 230/115 V 200/115 V 390 300 3.05 0.147 0.088	380/220 V 220/110 V 358 300 3.38 0.163 0.098	455 300 2.185 0.105 0.063 440/254 V 220/127 V		
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Performa Voltage Code Motor Starting Capability* Short Circuit Capacity** Reactances Alternator Performa Voltage Code Motor Starting Capability*	kVA % Xd X'd X"d ance Dat	kW (Btu/min) a 50 Hz: a 60 Hz 480/277 V 240/139 V	414 300 2.834 0.136 0.088 380/220 V 220/110 V	400/230 V 230/115 V 200/115 V 390 300 3.05 0.147 0.088	380/220 V 220/110 V 358 300 3.38 0.163 0.098	455 300 2.185 0.105 0.063 440/254 V 220/127 V		
Radiant Heat: 50 Hz Radiant Heat: 60 Hz Alternator Performa Voltage Code Motor Starting Capability* Short Circuit Capacity** Reactances Alternator Performa Voltage Code Motor Starting Capability* Short Circuit Capacity**	kVA % Xd X'd X"d ance Dat	kW (Btu/min) a 50 Hz: a 60 Hz 480/277 V 240/139 V 452 300	380/220 V 220/110 V	400/230 V 230/115 V 200/115 V 390 300 3.05 0.147 0.088 240/120 V 208/120 V	10.2 (580) 11.1 (631) 380/220 V 220/110 V 358 300 3.38 0.163 0.098	455 300 2.185 0.105 0.063 440/254 V 220/127 V		

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)



Output Ratings 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	Ratings	60 Hz
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	Prime		Standby	
Voltage Code	kVA	kW	kVA	kW
480/277V	168.8	135	187.5	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				





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.