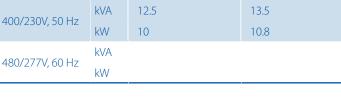
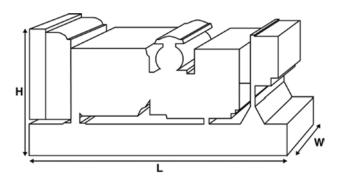


Output Ratings					
Voltage, Frequency		Prime	Standby		
400/230V, 50 Hz	kVA kW	12.5 10	13.5 10.8		
480/277V, 60 Hz	kVA kW				





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



30	4 1
AAA	

Soundpro	of Dimensions	
Length	cm	168.3
Width	cm	84.9
Height	cm	109

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 Performa	ance Data		
Engine Make		Perkins	
Engine Model:		403D-15G	
Alternator Make		Leroy Somer	
Alternator Model:		LL1114D	
Base Frame:		Heavy Duty Fabricated Steel	
Circuit Breaker Type:		3 Pole MCB	
Frequency:		50 HZ	60 HZ
Engine Speed: RPM	rpm	1500	1800
Fuel Tank Capacity:	litres	58	
Fuel Consumption Prime	litres (US gal)	3.7 (1)	4.3 (1.1)
Fuel Consumption Standby	litres (US gal)	4 (1.1)	4.9 (1.3)
Engine Technical Dat	a		
No. of Cylinders	<u>u</u>	3	
Alignment		IN LINE	
Cycle		4 STROKE	
	n (in)	84 (3.3)	
	n (in)	90 (3.5)	
Induction		NATURALLY ASPIRATED	
Cooling Method		WATER	
Governing Type		MECHANICAL	
Governing Class		ISO 8528	
Compression Ratio		22.5:1	
	:u. in)	1.5 (91.3)	
	m² (lb/in²)	2.17 (7415)	
Voltage		12	
Ground		Negative	
Battery Charger Amps		40	
Engine Weight Dry kg	(lb)	197 (434)	
Engine Weight Wet kg	(lb)	202 (445)	
Engine Performance	Data	50 Hz	60 Hz
Engine Speed	rpm	1500	1800
Gross Engine Power Prime	kW (hp)	12.2 (16)	14.7 (20)
Gross Engine Power Standby	kW (hp)	13.5 (18)	16.2 (22)
BMEP Prime	kPa (psi)	652 (94.6)	655 (95)
BMEP Standby	kPa (psi)	722 (104.7)	722 (104.7)



0.31 (0.4)

125 (0.5)

37.2 (1314)

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:	l/hr (US gal/hr)	4 (1.1)	3.7 (1)	2.8 (0.7)	2 (0.5)
50 Hz Standby	l/hr (US gal/hr)	-	4 (1.1)	3 (0.8)	2.1 (0.6)
60 Hz Prime	l/hr (US gal/hr)	4.9 (1.3)	4.3 (1.1)	3.2 (0.8)	2.4 (0.6)
60 Hz Standby	l/hr (US gal/hr)	-	4.9 (1.3)	3.5 (0.9)	2.5 (0.7)

(Based on diesel fuel with a specific gravity of 0.84 and conforming to BS2869, class A2

	50 Hz	60 Hz	
		Replaceable Element	
m³/min (cfm)	1.1 (38)	1.2 (43)	
m³/min (cfm)	1.1 (38)	1.2 (43)	
kPa	6.4 (25.7)	6.4 (25.7)	
		·	
	50 Hz	60 Hz	
l (US gal)	6 (1.6)	6 (1.6)	
		Centrifugal	
kW (Btu/min)	11.6 (660)	13.6 (773)	
by kW (Btu/min)	12.9 (734)	15.2 (864)	
kW (Btu/min)	5.2 (296)	5.9 (336)	
kW (Btu/min)	5.7 (324)	6.8 (247)	
	I (US gal) kW (Btu/min) kW (Btu/min) kW (Btu/min)	m³/min (cfm) 1.1 (38) m³/min (cfm) 1.1 (38) 6.4 (25.7) 50 Hz I (US gal) 6 (1.6) kW (Btu/min) 11.6 (660) by kW (Btu/min) kW (Btu/min) 5.2 (296)	Replaceable Element m³/min (cfm) 1.1 (38) 1.2 (43) m³/min (cfm) 1.1 (38) 1.2 (43) kPa 6.4 (25.7) 6.4 (25.7) 50 Hz 60 Hz I (US gal) 6 (1.6) 6 (1.6) Centrifugal kW (Btu/min) 11.6 (660) 13.6 (773) by kW (Btu/min) 15.2 (864) kW (Btu/min) 5.2 (296) 5.9 (336)

0.2 (0.2)

125 (0.5)

28.8 (1017)

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 (hp) m³/min (cfm)

Pa (in H2O)

Lubrication Sys	tem	
Oil Filter Type:		Spin-on, Full flow
Total Oil Capacity:	I (US gal)	6 (1.6)
Oil Pan Capacity:	l (US gal)	4.5 (1.2)
Oil Type:		API CH4 15W-40
Oil Cooling Method:		N/A

Exhaust System		50 Hz	60 Hz
Maximum Allowable Back Pressure:	kPa (in Hg)	10.2 (3)	10.2 (3)
Exhaust Gas Flow: Prime	m³/min (cfm)	2.7 (95)	3.1 (111)
Exhaust Gas Flow: Standby	m³/min (cfm)	2.9 (102)	3.4 (119)
Exhaust Gas Temperature: Prime	°C (°F)	445 (833)	455 (851)
Exhaust Gas Temperature: Standby	°C (°F)	490 (914)	505 (941)

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



Alternator Physical	Data						
No. of Bearings:					1		
Insulation Class:					Н		
Winding Pitch:					2/3		
Winding Code					6		
Wires:					12		
Ingress Protection Rating:					IP23		
Excitation System:					SHUNT		
AVR Model:					R220/R221		
dependant on voltage code selected	t						
Alternator Operatin	ıg Data	1					
Overspeed: rpm					2250		
Voltage Regulation: (Steady	state)	%			+/- 0.5		
Wave Form NEMA = TIF:					50		
Wave Form IEC = THF:		%			2		
Total Harmonic content LL/LN:		%			4		
Radio Interference:					EN61000-6		
Radiant Heat: 50 Hz		kW (Btu/min)			2.2 (125)		
Radiant Heat: 60 Hz		kW (Btu/min)			2.5 (142)		
Alternator Performa		ata 50 U=.					
Alternator Periorina	ance D	ala 30 HZ.	415/240 V	400/230 V	380/220 V		
Voltage Code			413/240 V	400/230 V	300/220 V		
Motor Starting Capability*	kVA		28	27	25		
Short Circuit Capacity**	%		0	0	0	0	
Reactances	Xd		1.938	2.086	2.311		
	X'd		0.2	0.216	0.239		
	X″d		0.108	0.108	0.119		
Alternator Performa	anco D	ata 60 Hz					
Alternator Periorina	ance D	ata oo nz					
Voltage Code						220/127 V	
Motor Starting Capability*	kVA					27	
Short Circuit Capacity**	%	0	0	0	0	0	
Reactances	Xd					2.482	
	X'd					0.257	
	X"d					0.128	

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	12.5	10	13.5	10.8	
400/230V	12.5	10	13.5	10.8	
380/220V	12.5	10	13.5	10.8	
230/115V					
220/127V					
220/110V					
200/115V					
240V					
230V					
220V					
Output Ratings	60 Hz				
Output natings	00112	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	15	12	16.5	13.2	
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.