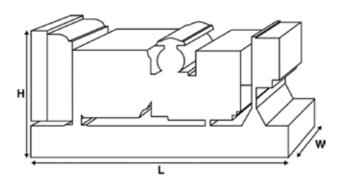


Output Ratings				
Voltage, Frequency		Prime	Standby	
400/230 V, 50 Hz	kVA	12.4	13.5	
	kW	9.92	10.8	
220/127 V, 60 Hz	kVA	15	16.4	
	kW	12	13.12	

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	1550 (61)		
Width	mm	620 (24.4)		
Height	mm	1020 (40.2)		
Weight (Dry)	kg	302 (666)		
Weight (Wet)	kg	308 (679)		

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:		403D-15G			
Alternator Make		FG Wilson FGL10020 FG100			
Alternator Model:					
Control Panel:					
Base Frame:		Heavy Duty Fabricated S	Steel		
Circuit Breaker Type:		3 Pole MCB			
Frequency:		50 HZ	60 HZ		
Engine Speed: RPM	rpm	1500	1800		
Fuel Tank Capacity:	litres (US gal)				
Fuel Consumption Prime	litres (US gal)/hr	3.6 (1)	4.3 (1.1)		
Fuel Consumption Standb	by litres (US gal)/hr	4 (1.1)	4.8 (1.3)		
Engine Technical D	Data				
No. of Cylinders		3			
Alignment		IN LINE			
Cycle		4 STROKE			
Bore	mm (in)	84 (3.3)			
Stroke	mm (in)	90 (3.5)			
Induction		NATURALLY ASPIRATED			
Cooling Method		WATER			
Governing Type		MECHANICAL			
Governing Class		ISO 8528			
Compression Ratio		22.5:1			
Displacement	L (cu. in)	1.5 (91.3)			
Moment of Inertia:	kg 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 Performan	ice Data	50 Hz	60 Hz		
Engine Speed	rpm	1500	1800		
Gross Engine Power Prime	e kW (hp)	12.2 (16)	14.7 (20)		
Gross Engine Power Stand		13.5 (18)	16.2 (22)		
BMEP Prime	kPa (psi)	652 (94.6)	655 (95)		

722 (104.7)

722 (104.7)



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)	3.6 (1)	2.7 (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)	4.8 (1.3)	4.3 (1.1)	3.2 (0.8)	2.4 (0.6)
60 Hz Standby	l/hr (US gal/hr)	-	4.8 (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

Air System		50 Hz	60 Hz	
Air Filter Type:			Replaceable Element	
Combustion Air Flow Prime r	m³/min (cfm)	1.1 (38)	1.2 (43)	
Combustion Air Flow Standby r	m³/min (cfm)	1.1 (38)	1.2 (43)	
Max. Combustion Air Intake Restriction	:Pa	6.4 (25.7)	6.4 (25.7)	
Cooling System		50 Hz	60 Hz	
Cooling System Capacity	l (US gal)	6 (1.6)	6 (1.6)	
Water Pump Type:			Centrifugal	
Heat Rejected to Water & Lube Oil: Prime	kW (Btu/min)	11.6 (660)	13.6 (773)	
Heat Rejected to Water & Lube Oil: Standby	kW (Btu/min)	12.9 (734)	15.2 (864)	
Heat Radiation to Room*: Prime	kW (Btu/min)	5.4 (307)	6.9 (392)	
Heat Radiation to Room*: Standby	kW (Btu/min)	5.9 (336)	7.1 (247)	
Radiator Fan Load:	kW (hp)	0.2 (0.2)	0.31 (0.4)	
Radiator Cooling Airflow:	m³/min (cfm)	28.8 (1017)	37.2 (1314)	
External Restriction to Cooling Airflow:	Pa (in H2O)	125 (0.5)	125 (0.5)	

*: Heat radiated from engine and alternator

Exhaust Gas Temperature: Prime

Exhaust Gas Temperature: Standby

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.

°C (°F)

°C (°F)

Lubrication Sys	tem			
Oil Filter Type:			Spin-on, Full flow	
Total Oil Capacity:	l (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	
Full a wat Coat an		FO 11-		
Exhaust System	1	50 Hz	60 Hz	
Maximum Allowable 8	Back Pressure: kPa (in Hg)	10.2 (3)	10.2 (3)	
Exhaust Gas Flow: Prin	me m³/min (cfm)	2.7 (95)	3.1 (111)	
Exhaust Gas Flow: Sta	ndby m³/min (cfm)	2.9 (102)	3.4 (119)	

445 (833)

490 (914)

455 (851)

505 (941)



Alternator Physical	Data					
No. of Bearings:					1	
Insulation Class:					Н	
Winding Pitch:					2/3	
Winding Code					6S/6P	
Wires:					4	
Ingress Protection Rating:					IP23	
Excitation System:					SHUNT	
AVR Model:					R120	
dependant on voltage code selecter	d					
Alternator Operatir	ng Data	3				
Overspeed: rpm					2250	
Voltage Regulation: (Steady	state)	%			+/- 0.5	
Wave Form NEMA = TIF:					50	
Wave Form IEC = THF:		%			2	
Total Harmonic content LL/	LN:	%			3.5	
Radio Interference:					EN61000-6	
Radiant Heat: 50 Hz kW (Btu/min)		kW (Btu/min)	2.4 (136)			
Radiant Heat: 60 Hz		kW (Btu/min)	2.8 (159)			
Alternator Perform	ance D	ata 50 Hz·				
		utu 50 112.	415/240 V	400/230 V	380/220 V	
Voltage Code						
5						
Motor Starting Capability*	kVA		19	18	16	
Short Circuit Capacity**	%		0	0	0	0
Reactances	Xd		1.914	2.077	2.283	
	X′d		0.197	0.214	0.235	
	X″d		0.107	0.107	0.118	
Alternator Perform	ance D	ata 60 Hz				
Alternator Perform	ance D	ata 60 Hz				220/127 V
	ance D	ata 60 Hz				220/127 V
Voltage Code	ance D	ata 60 Hz				220/127 V 18
Voltage Code Motor Starting Capability*		ata 60 Hz	0	0	0	
Voltage Code Motor Starting Capability* Short Circuit Capacity**	kVA		0		0	18
	kVA %		0		0	18 0

*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	12.3	9.84	13.5	10.8	
400/230V	12.4	9.92	13.5	10.8	
380/220V	12.3	9.84	13.5	10.8	
230/115V					
220/127V					
220/110V					
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					
240/120V					
230/115V					
220/127V	15	12	16.4	13.1	
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.

In line with our policy of continuous product development, we reserve the right to change specification without notice.