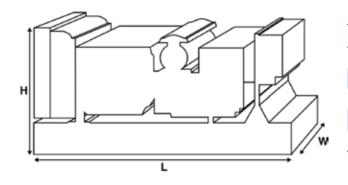


Output Ratings						
Voltage, Frequency		Prime	Standby			
230 V, 50 Hz	kVA kW	11 11	12 12			
	kVA					
	kW					



Ratings at 1 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	309 (681)			
Weight (Wet)	kg	315 (694)			

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



<b>Ratings and Perfo</b>	rmance Data		
Engine Make		Perkins	
Engine Model:		403A-15G2	
Alternator Make			
Alternator Model:		FGL10031	
Control Panel:		FG100	
Base Frame:		Heavy Duty Fabricated S	teel
Circuit Breaker Type:		3 Pole MCB	
Frequency:		50 HZ	60 HZ
Engine Speed: RPM	rpm	1500	
Fuel Tank Capacity:	litres (US gal)		
Fuel Consumption Prime	e litres (US gal)/hr	4 (1.1)	
Fuel Consumption Stand	lby litres (US gal)/hr	4.5 (1.2)	
Engine Technical I	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)	2.46 (8406)	
Voltage		12	
Ground		Negative	
Battery Charger Amps		40	
Engine Weight Dry	kg (lb)	197 (434)	
Engine Weight Wet	kg (lb)	215 (474)	
<b>Engine Performa</b>	nce Data	50 Hz	60 Hz
Engine Speed	rpm	1500	
Gross Engine Power Prim	ne kW (hp)	13.7 (18)	
Gross Engine Power Stan	dby kW (hp)	15.1 (20)	
BMEP Prime	kPa (psi)	734 (106.5)	
BMEP Standby	kPa (psi)	807 (117.1)	



<b>Fuel System</b>					
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)	4.5 (1.2)	4 (1.1)	2.8 (0.7)	2.2 (0.6)
50 Hz Standby	l/hr (US gal/hr)	-	4.5 (1.2)	3.1 (0.8)	2.3 (0.6)
60 Hz Prime	l/hr (US gal/hr)				
60 Hz Standby	l/hr (US gal/hr)	=			

(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	m³/min (cfm)	1 (35)	
Combustion Air Flow Standby	m³/min (cfm)		
Max. Combustion Air Intake Restriction	kPa	6.4 (25.7)	
Cooling System		50 Hz	60 Hz
Cooling System Capacity	I (US gal)	6 (1.6)	

Cooling System		50 HZ	60 HZ
Cooling System Capacity	l (US gal)	6 (1.6)	
Water Pump Type:			Centrifugal
Heat Rejected to Water & Lube Oil: Prime	kW (Btu/min)	13.1 (745)	
Heat Rejected to Water & Lube Oil: Standby	kW (Btu/min)	14.4 (819)	
Heat Radiation to Room*: Prime	kW (Btu/min)	5.6 (318)	
Heat Radiation to Room*: Standby	kW (Btu/min)	6.1 (347)	
Radiator Fan Load:	kW (hp)	0.2 (0.2)	
Radiator Cooling Airflow:	m³/min (cfm)	33 (1165)	
External Restriction to Cooling Airflow:	Pa (in H2O)	125 (0.5)	

<sup>\*:</sup> 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.

Lubrication System					
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			

Maximum Allowable Back Pressure: kPa (in Hg) 10.2 (3)  Exhaust Gas Flow: Prime m³/min (cfm) 2.2 (78)  Exhaust Gas Flow: Standby m³/min (cfm)  Exhaust Gas Temperature: Prime °C (°F) 470 (878)  Exhaust Gas Temperature: Standby °C (°F) 580 (1076)	Exhaust System	_	50 Hz	60 Hz
Exhaust Gas Flow: Standby m³/min (cfm)  Exhaust Gas Temperature: Prime °C (°F) 470 (878)	Maximum Allowable Back Pressure:	kPa (in Hg)	10.2 (3)	
Exhaust Gas Temperature: Prime °C (°F) 470 (878)	Exhaust Gas Flow: Prime	m³/min (cfm)	2.2 (78)	
Extract day reinperature 1 mile	Exhaust Gas Flow: Standby	m³/min (cfm)		
Exhaust Gas Tomporatura: Standby 9C (9E) 580 (1076)	Exhaust Gas Temperature: Prime	°C (°F)	470 (878)	
Exhibits das lemperature, standby C(1) 300 (1070)	Exhaust Gas Temperature: Standby	°C (°F)	580 (1076)	



<b>Alternator Physical</b>	Data					
No. of Bearings:						
Insulation Class:						
Winding Pitch:						
Winding Code					М	
Wires:					3	
Ingress Protection Rating:						
Excitation System:						
AVR Model:					R121	
dependant on voltage code selecte	ed					
Alternator Operati	ng Data	a				
Overspeed: rpm						
Voltage Regulation: (Steady	state)	%				
Wave Form NEMA = TIF:						
Wave Form IEC = THF: %		%				
Total Harmonic content LL/	LN:	%				
Radio Interference:						
Radiant Heat: 50 Hz		kW (Btu/min)			2.2 (125)	
Radiant Heat: 60 Hz		kW (Btu/min)				
Alternator Perform	ance D	ata 50 Hz:				
			240 V	230 V	220 V	
Voltage Code						
Motor Starting Capability*	kVA		24	22	21	
Short Circuit Capacity**	%		0	0	0	0
Reactances	Xd		1.55	1.68	1.84	
	X'd		0.27	0.29	0.32	
	X"d		0.146	0.146	0.159	

19

0

0

0

0

21

0

0

20

0

0

0

Reactances shown are applicable to prime ratings.

Voltage Code

Reactances

Motor Starting Capability\*

Short Circuit Capacity\*\*

kVA

Xd

Χ'd

X"d

0

<sup>\*</sup>Based on 30% voltage dip at 0.9 power factor.

<sup>\*\*</sup> With optional independant excitation system (PMG / AUX winding)



Output Ratings 50 Hz							
	Prime			Standby			
Voltage Code	kVA	kW	kVA	kW			
415/240V							
400/230V							
380/220V							
230/115V							
220/127V							
220/110V							
200/115V							
240V	11	11	12	12			
230V	11	11	12	12			
220V	11	11	12	12			
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							
220/110V							
208/120V							
240/120							
220/110							





D	ealer Conta	act 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.