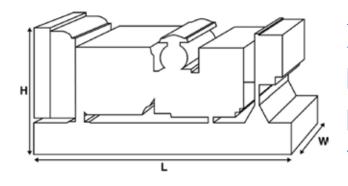


Output Ratings							
Voltage, Frequency		Prime	Standby				
400/230 V, 50 Hz	kVA kW	199.4 159.52	217.8 174.24				
	kVA kW						



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	2510 (98.8)				
Width	mm	1010 (39.8)				
Height	mm	1640 (64.6)				
Weight (Dry)	kg	1564 (3448)				
Weight (Wet)	kg	1591 (3508)				

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 Perf	formance Data				
Engine Make		Perkins			
Engine Model:		1106A-70TAG4			
Alternator Make		FG Wilson			
Alternator Model:		FG26A160			
Control Panel:		FG100			
Base Frame:		Heavy Duty Fabricated	Steel		
Circuit Breaker Type:		3 Pole MCB			
Frequency:		50 HZ	60 HZ		
Engine Speed: RPM	rpm	1500			
Fuel Tank Capacity:	litres (US gal)	394 (104.08)			
Fuel Consumption Prim	ne litres (US gal)/hr	44.5 (11.8)			
Fuel Consumption Star	ndby litres (US gal)/hr	49.9 (13.2)			
<b>Engine Technica</b>	l 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	TURBOCHARGED AIR TO AIR CHARGE COOLED		
Cooling Method		WATER			
Governing Type		ELECTRONIC			
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		65			
Engine Weight Dry	kg (lb)	743 (1638)			
Engine Weight Wet	kg (lb)	777 (1713)			
-					
<b>Engine Perform</b>	ance Data	50 Hz	60 Hz		
Engine Speed	rpm	1500			
Gross Engine Power Pri	ime kW (hp)	178.9 (240)			
Gross Engine Power Sta	andby kW (hp)	196.3 (263)			
BMEP Prime	kPa (psi)	2041 (296)			
BMEP Standby	kPa (psi)	2239 (324.7)			



<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:	I/hr (US gal/hr)	49.9 (13.2)	44.5 (11.8)	31.6 (8.3)	21.9 (5.8)
50 Hz Standby	l/hr (US gal/hr)	-	49.9 (13.2)	34.9 (9.2)	23.1 (6.1)
60 Hz Prime	I/hr (US gal/hr)				
60 Hz Standby	l/hr (US gal/hr)	-			

(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:		Replaceable Element			
Combustion Air Flow Prime	m³/min (cfm)	12.6 (445)			
Combustion Air Flow Standby	m³/min (cfm)	13.2 (466)			
Max. Combustion Air Intake Restriction	kPa	5 (20.1)			

Cooling System		50 Hz	60 Hz	
Cooling System Capacity	l (US gal)	27 (7.1)		
Water Pump Type:			Centrifugal	
Heat Rejected to Water & Lube Oil: Prime	kW (Btu/min)	78.2 (4447)		
Heat Rejected to Water & Lube Oil: Standby	kW (Btu/min)	81 (4606)		
Heat Radiation to Room*: Prime	kW (Btu/min)	28 (1592)		
Heat Radiation to Room*: Standby	kW (Btu/min)	29.8 (1695)		
Radiator Fan Load:	kW (hp)	5 (6.7)		
Radiator Cooling Airflow:	m³/min (cfm)	273 (9641)		
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.

<b>Lubrication Sy</b>	stem	
Oil Filter Type:		Spin-On, Full Flow
Total Oil Capacity:	l (US gal)	16.5 (4.4)
Oil Pan Capacity:	l (US gal)	14.9 (3.9)
		A DI CIA 45144 40

Oil Type: API Cl4 15W-40
Oil Cooling Method: WATER

Exhaust System		50 Hz	60 Hz
Maximum Allowable Back Pressure:	kPa (in Hg)	6 (1.8)	
Exhaust Gas Flow: Prime	m³/min (cfm)	34.9 (1232)	
Exhaust Gas Flow: Standby	m³/min (cfm)	36.8 (1300)	
Exhaust Gas Temperature: Prime	°C (°F)	550 (1022)	
Exhaust Gas Temperature: Standby	°C (°F)	550 (1022)	



<b>Alternator Physical</b>	Data					
No. of Bearings:					1	
Insulation Class:					Н	
Winding Pitch:					2/3	
Winding Code					R1	
Wires:					12	
Ingress Protection Rating:					IP21	
Excitation System:					SHUNT	
AVR Model:					EVC600i	
dependant on voltage code selected	d					
Alternator Operatin	ng Data	1				
Overspeed: rpm					2250	
Voltage Regulation: (Steady	state)	%			+/- 1.0	
Wave Form NEMA = TIF:					50	
Wave Form IEC = THF:		%			2	
Total Harmonic content LL/I	LN:	%			3	
Radio Interference:					-	
Radiant Heat: 50 Hz		kW (Btu/min)			16.6 (944)	
Radiant Heat: 60 Hz		kW (Btu/min)				
Ali D C		. 50.11				
Alternator Perform	ance D	ata 50 Hz:		100/0001/		
V/II				400/230 V		
Voltage Code						
Motor Starting Capability*	kVA			564		
Short Circuit Capacity**	%		-	-	-	-
Reactances	Xd			3.74		
	X'd			0.12		
	X″d		0.111	0.111		
<b>Alternator Performa</b>	ance D	ata 60 Hz				
Voltage Code						
Motor Starting Capability*	kVA					
Short Circuit Capacity**	%	-	-	-	-	-
Reactances	Xd					
	X'd					
	2011					

Reactances shown are applicable to prime ratings.

<sup>\*</sup>Based on 30% voltage dip at 0.6 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	199.4	159.52	217.8	174.24			
380/220V							
230/115V							
220/127V							
220/110V							
200/115V							
240V							
230V							
220V							
Output Ratings	60 Uz						
Output Natings	00 П2		Standby				
Voltage Code	kVA	Prime 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							





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.