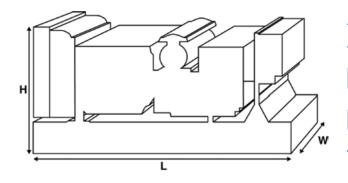


Output Ratings					
Voltage, Frequency		Prime	Standby		
400/230V, 50 Hz	kVA kW	50 50	55 55		
480/277V, 60 Hz	kVA kW	`			



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	1870 (73.6)		
Width	mm	840 (33.1)		
Height	mm	1333 (52.5)		
Weight (Dry)	kg	928 (2046)		
Weight (Wet)	kg	941 (2075)		

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	ormance Data		
Engine Make		Perkins	
Engine Model:		1104D-44TG2/3	
Alternator Make		Leroy Somer	
Alternator Model:		LLB3114D	
Control Panel:		DCP-10	
Base Frame:		Heavy Duty Fabricated S	teel
Circuit Breaker Type:		3 Pole MCCB	
Frequency:		50 HZ	60 HZ
Engine Speed: RPM	rpm	1500	
Fuel Tank Capacity:	litres (US gal)	180 (47.55)	
Fuel Consumption Prim	ne litres (US gal)	16.5 (4.4)	
Fuel Consumption Stan	ndby litres (US gal)	18.2 (4.8)	
Engine Technical	Data		
No. of Cylinders		4	
Alignment		IN LINE	
Cycle		4 STROKE	
Bore	mm (in)	105 (4.1)	
Stroke	mm (in)	127 (5)	
Induction		TURBOCHARGED	
Cooling Method		WATER	
Governing Type		MECHANICAL	
Governing Class		ISO 8528 G2	
Compression Ratio		18.23:1	
Displacement	L (cu. in)	4.4 (268.5)	
Moment of Inertia:	kg m² (lb/in²)	1.14 (3896)	
Voltage		12	
Ground		Negative	
Battery Charger Amps		65	
Engine Weight Dry	kg (lb)	401 (884)	
Engine Weight Wet	kg (lb)	408 (899)	
Engine Performa	ance Data	50 Hz	60 Hz
Engine Speed	rpm	1500	
Gross Engine Power Pri	me kW (hp)	56.6 (76)	
Gross Engine Power Sta	andby kW (hp)	61 (82)	
BMEP Prime	kPa (psi)	1029 (149.3)	
BMEP Standby	kPa (psi)	1109 (160.9)	



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:	I/hr (US gal/hr)	18.2 (4.8)	16.5 (4.4)	12.3 (3.2)	8.4 (2.2)
50 Hz Standby	l/hr (US gal/hr)	=	18.2 (4.8)	13.5 (3.6)	9.2 (2.4)
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 classA2,EN590 $\,$

Air System		50 Hz		60 Hz	
Air Filter Type:			Replace	able Element	
Combustion Air Flow Prime	m³/min (cfm)	4.7 (166)			
Combustion Air Flow Standby	m³/min (cfm)	4.9 (173)			
Max. Combustion Air Intake Restriction	kPa	6 (24.1)			

Cooling System		50 Hz	60 Hz	
Cooling System Capacity	l (US gal)	16.5 (4.4)	'	
Water Pump Type:			Centrifugal	
Heat Rejected to Water & Lube Oil: Prime	kW (Btu/min)	47 (2673)		
Heat Rejected to Water & Lube Oil: Standby	kW (Btu/min)	46.8 (2661)		
Heat Radiation to Room*: Prime	kW (Btu/min)	14 (796)		
Heat Radiation to Room*: Standby	kW (Btu/min)	14.7 (836)		
Radiator Fan Load:	kW (hp)	1 (1.3)		
Radiator Cooling Airflow:	m³/min (cfm)	84 (2966)		
External Restriction to Cooling Airflow:	Pa (in H2O)	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.

Lubrication Sys	item	
Oil Filter Type:		Spin-On, Full Flow
Total Oil Capacity:	I (US gal)	8 (2.1)
Oil Pan Capacity:	I (US gal)	7 (1.8)
Oil Type:		API CH4 15W-40
Oil Cooling Method:		WATER

Exhaust System		50 Hz	60 Hz
Maximum Allowable Back Pressure:	kPa (in Hg)	12 (3.5)	
Exhaust Gas Flow: Prime	m³/min (cfm)	11.2 (396)	
Exhaust Gas Flow: Standby	m³/min (cfm)	12.3 (435)	
Exhaust Gas Temperature: Prime	°C (°F)	570 (1058)	
Exhaust Gas Temperature: Standby	°C (°F)	627 (1161)	



Alternator Physical Dat	a						
No. of Bearings:				1			
Insulation Class:				Н			
Winding Pitch:				2/3			
Winding Code				М			
Wires:				4			
Ingress Protection Rating:				IP23			
Excitation System:				SHUNT			
AVR Model:				R250			
dependant on voltage code selected							
Alternator Operating D	ata						
Overspeed: rpm				2250			
Voltage Regulation: (Steady state) %			+/- 0.5			
Wave Form NEMA = TIF:		50					
Wave Form IEC = THF:	%	%			2		
Total Harmonic content LL/LN:	%	% 2.5					
Radio Interference:			EN61000-6				
Radiant Heat: 50 Hz	kW (Btu/min)		5.4 (307)				
Radiant Heat: 60 Hz	kW (Btu/min)	kW (Btu/min)					
Alternator Performance	e Data 50 Hz:						
		240 V	230 V	220 V			
Voltage Code							
Motor Starting Capability* kV/	4	145	136	128			
Short Circuit Capacity** %		300	300	300	300		
Reactances Xd		1.603	1.746	1.908			
		0.135	0.147	0.161			
X'd		0.155					

Voltage Code

Motor Starting Capability*	kVA		0	0	0	
Short Circuit Capacity**	%	300	300	300	300	300
Reactances	Xd		0	0	0	
	X'd		0	0	0	
	X"d		0	0	0	

Reactances shown are applicable to prime ratings.

^{*}Based on 30% voltage dip at 0.9 power factor.

^{**} 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	50	50	55	55	
230V	50	50	55	55	
220V	50	50	55	55	
Output Ratings (60 Hz				
		Prime	<u> </u>	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					





P55-6S

Dealer Contact Details



01953 454540 www.stuartgroup.ltd.uk enquiries@stuartgroup.info









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.