

P7.5-4S (Skid)

Output Ratings	0	utp	ut	Rat	ings
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1 3		
Voltage, Frequency	Prime	Standby
230V, 50Hz	6.8 kVA / 6.8 kW	7.5 kVA / 7.5 kW
240/120V, 60 Hz	8.0 kVA / 8.0 kW	8.8 kVA / 8.8 kW

Ratings at 1.0 power factor.

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

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.

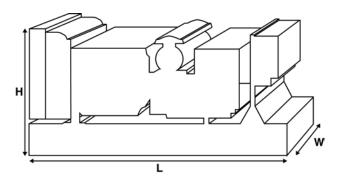




Image for illustration purposes only.

Ratings and Performance Dat	a		
Engine Make & Model:		Perkins 403D-11	G
Alternator manufactured for FG Wilson by:		Leroy Somer	
Alternator Model:		LLB1114D	
Control Panel:		DSE4520	
Base Frame:		Heavy Duty Fabricated Steel	
Circuit Breaker Type:		3 Pole MCB	
Frequency:		50 Hz	60 Hz
Engine Speed: rpm		1500	1800
Fuel Tank Capacity: litres (US gal)		N/	A
Fuel Consumption: I/hr (US gal/hr)		
(100% Load)	- Prime	2.5 (0.7)	2.9 (0.8)
	- Standby	2.8 (0.7)	3.3 (0.9)

Available Options

FG Wilson offer a range of optional features to tailor our generator sets to meet your power needs. Options 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

Dimensions and Weights					
Length (L) mm (in)	Width (W) mm (in)	Height (H) mm (in)	Dry kg (lb)	Wet kg (lb)	
1500 (59.1)	860 (33.9)	895 (35.2)	237 (522.1)	242 (533.5)	
Dry = With Lube	Oil	Wet = With Lube	e Oil and Coolant		

Ratings in accordance with ISO 8528, ISO 3046, IEC 60034, BS5000 and NEMA MG-1.22. Generator set pictured may include optional accessories.

Engine Technical Data			
No. of Cylinders / Aligr	iment:	3 / In Line	
Cycle:	4 Stroke		
Bore / Stroke: mm (in)		77.0 (3.0)/81.0 (3.2)	
Induction:		Naturally Aspirated	
Cooling Method:		Water	
Governing Type:	Mechanical		
Governing Class:	ISO 8528		
Compression Ratio:	Ratio: 23:1		
Displacement: I (cu. in)		1.1 (69.0)	
Moment of Inertia: kg m	f Inertia: kg m² (lb/in²) 1.63 (5570)		
Engine Electrical System	m:		
- Voltage	/ Ground	12/Negative	
- Battery Charg	jer Amps	40	
Weight: kg (lb)	- Dry	129 (284)	
	- Wet	139 (306)	

Performance		50 Hz	60 Hz
Engine Speed: rpr	n	1500	1800
Gross Engine Por	wer: kW (hp)		
	- Prime	8.6 (12.0)	10.7 (14.0)
	- Standby	9.5 (13.0)	11.8 (16.0)
BMEP: kPa (psi)			
	- Prime	610.0 (88.5)	630.0 (91.4)
	- Standby	672.0 (97.4)	695.0 (100.8)

F	Fuel System					
F	Fuel Filter Type: Replaceable Element					
R	Recommended Fuel: Class A2 Diesel or BSEN590			or BSEN590		
Fuel Consumption: I/hr (US gal/hr)						
		110%	100%	75%	50%	
	Prime	Load	Load	Load	Load	
	50 Hz	2.8 (0.7)	2.5 (0.7)	1.9 (0.5)	1.5 (0.4)	
	60 Hz	3.3 (0.9)	2.9 (0.8)	2.2 (0.6)	1.8 (0.5)	
			100%	75%	50%	

	100%	75%	50%
Standby	Load	Load	Load
50 Hz	2.8 (0.7)	2.1 (0.6)	1.6 (0.4)
60 Hz	3.3 (0.9)	2.4 (0.6)	1.8 (0.5)

(Based on diesel fuel with a specific gravity of 0.85 and conforming to BS2869, Class A2)

Air Systems	50 Hz	60 Hz
Air Filter Type:	Replaceab	le Element
Combustion Air Flow: m ³ /min (cfm)		
- Prime	0.7 (25)	0.9 (32)
- Standby	0.7 (25)	0.9 (32)
Max. Combustion Air Intake Restriction: kPa (in H ₂ O)	6.4 (25.7)	6.4 (25.7)

Cooling System	50 Hz	60 Hz	
Cooling System Capacity: I (US gal)	5.2 (1.4)	5.2 (1.4)	
Water Pump Type:	Cer	ntrifugal	
Heat Rejected to Water & Lube Oil:			
kW (Btu/min) - Prime	8.3 (472)	10.0 (569)	
- Standby	9.5 (540)	12.0 (682)	
Heat Radiation to Room: Heat radiated from engine and alternator			
kW (Btu/min) - Prime	3.2 (182)	4.4 (250)	
- Standby	4.2 (239)	5.1 (290)	
Radiator Fan Load: kW (hp)	0.2 (0.3)	0.4 (0.5)	
Radiator Cooling Airflow: m ³ /min (cfm)	24.0 (848)	32.7 (1155)	
External Restriction to Cooling Airflow: Pa (in H ₂ O)	125 (0.5)	125 (0.5)	

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.

in-On, Full Flow
4.9 (1.3)
4.4 (1.2)
PI CH4 15W-40
N/A

50 Hz	60 Hz
10.2 (3.0)	10.2 (3.0)
1.7 (59)	2.2 (78)
1.8 (64)	2.4 (85)
368 (694)	437 (819)
420 (788)	515 (959)
	10.2 (3.0) 1.7 (59) 1.8 (64) 368 (694)

Alternator Physical Data	
Manufactured for FG Wilson by:	Leroy Somer
Model:	LLB1114D
No. of Bearings:	1
Insulation Class:	Н
Winding Pitch Code:	2/3 - M
Wires:	4
Ingress Protection Rating:	IP23
Excitation System:	SHUNT
AVR Model:	R220/R221

Alternator Operating Data							
Overspeed: rpm	2250						
Voltage Regulation: (Steady state)	+/- 2.0%						
Wave Form NEMA = TIF:	100						
Wave Form IEC = THF:	3.0%						
Total Harmonic content LL/LN:	5.0%						
Radio Interference:	Suppression is in line with European Standard EN61000-6						
Radiant Heat: kW (Btu/min)							
- 50 Hz	1.7 (97)						
- 60 Hz	2.0 (114)						

Alternator Performance Data:		50	Hz	60 Hz
Data Item	240V	230V	220V	
				220V/110V 240V/120V
Motor Starting	10	17	17	14 17
Capability* kVA	18	17	16	14 16
Short Circuit				
Capacity %	-	-	-	
Reactances: Per Unit				
Xd	1.150	1.250	1.360	1.920 1.620
X'd	0.210	0.230	0.250	0.360 0.300
X"d	0.106	0.116	0.126	0.179 0.150

Reactances shown are applicable to prime ratings. *Based on 30% voltage dip at 0.6 power factor and SHUNT excitation.

Output Ratings Technical Data 50 Hz				Output Rating	Output Ratings Technical Data 60 Hz				
Voltage	Pri	Prime:		Standby:		Voltage P		Standby	
	kVA	kW	kVA	kW		kVA	kW	kVA	
240V	6.8	6.8	7.5	7.5					
230V	6.8	6.8	7.5	7.5					
220V	6.8	6.8	7.5	7.5					
					220V/110V	8.0	8.0	8.8	
					240V/120V	8.0	8.0	8.8	

Documentation

A full set of operation and maintenance manuals and circuit wiring diagrams.

Generator Set Standards

The equipment meets the following standards: BS5000, ISO 8528, ISO 3046, IEC 60034, NEMA MG-1.22.

FG Wilson is a fully accredited ISO 9001 company.

EU stage IIIA emissions compliant.

Warranty

All prime equipment carries a one year manufacturer's warranty. Standby equipment, limited to 500 running hours per year, has a two year manufacturer's warranty. For details on warranty cover please contact your local Dealer, or visit our website: FGWilson.com.

Dealer contact details:

FG Wilson manufactures product in the following locations:

Northern Ireland • Brazil • China • India • USA

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.