PROUDLY 100% AUSTRALIAN OWNED MACFARLANE GENERATORS

ESTABLISHED 1949



P7.5-4S

Output Ratings

Voltage, Frequency	Prime	Standby
230V, 50 Hz	6.8 kVA / 6.8 kW	7.5 kVA / 7.5 kW
240V, 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.

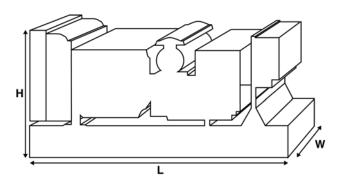




Image for illustration purposes only.

	Perkins® 403D-	11G
	Leroy Somer	
	LLB1114D	
	DCP-10	
	Heavy Duty Fabri	cated Steel
	3 Pole MCB	
	50 Hz	60 Hz
	1500	1800
	62 (10	6.4)
- Prime	2.5 (0.7)	2.9 (0.8)
Standby	2.8 (0.7)	3.3 (0.9)
		Perkins® 403D- Leroy Somer LLB1114D DCP-10 Heavy Duty Fabri 3 Pole MCB 50 Hz 1500 62 (1) - Prime 2.5 (0.7)

Available Options

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

- Upgrade to CE Certification
- A wide range of Sound Attenuated Enclosures
- A variety of generating set control panels
- Additional alarms and shutdowns

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)
1400 (55.1)	620 (24.4)	996 (39.2)	303 (668)	308 (679)
Dry = With Lube	Oil	Wet = With Lube	Oil and Coolant	

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

Engine Technical Data		
No. of Cylinders / Alignment:		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:		23:1
Displacement: I (cu. in)		1.1 (69.0)
Moment of Inertia: kg m ² (Ib/in ²)		1.63 (5570)
Engine Electrical System		
- Voltage / O	Ground	12/Negative
- Battery Charge	r Amps	40
Weight: kg (lb)	- Dry	129 (284)
	- Wet	139 (306)

Performance		50 Hz	60 Hz
Engine Speed: rpr	n	1500	1800
Gross Engine Pov	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:		I	Replaceable Element	
R	ecommen	ded Fuel:	(Class A2 Diesel	
F	uel Consu	mption: I/hr (US g	jal/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%
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:	Replaceable 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	n engine and alterna	tor
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: m³/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.

Lubrication System	
Oil Filter Type:	Spin-On, Full Flow
Total Oil Capacity: I (US gal)	4.9 (1.3)
Oil Pan: I (US gal)	4.4 (1.2)
Oil Type:	API CH4 15W-40
Oil Cooling Method:	N/A

Exhaust System	50 Hz	60 Hz	
Silencer Type:	Industrial		
Silencer Model & Quantity:	IND	(1)	
Pressure Drop Across Silencer System: kPa (in Hg)	0.44 (0.130)	0.80 (0.236)	
Silencer Noise Reduction Level: dB	28	14.6	
Maximum Allowable Back Pressure: ^{kPa} (in Hg)	10.2 (3.0)	10.2 (3.0)	
Exhaust Gas Flow: m³/min (cfm)			
- Prime	1.7 (59)	2.2 (78)	
- Standby	1.8 (64)	2.4 (85)	
Exhaust Gas Temperature: °C (°F)			
- Prime	368 (694)	437 (819)	
- Standby	420 (788)	515 (959)	

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

Alternator Operating Data								
Overspeed: rpm	2250							
Voltage Reguation: (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	14	14 14
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 0.9 power factor.

Output Ratings Technical Data 50 Hz					Output Ratings Technical Data 60 Hz					
Voltage	Prime:		Standby:		Voltage	Prime:		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.

Generating 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.



Contact Information: VIC: 136 Fairbank Road Clayton South, Vic 3169 Seven Hills, NSW 2147

NSW: 1 St James Place

QLD: 31 South Pine Road Brendale, Qld 4500

Tel.: 1300 MAC GEN (622 436) Email: info@macgen.com

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.

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