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P625-3

Optional Leroy Somer Alternator

Output Ratings		
Voltage, Frequency	Prime	Standby
-	- / -	- / -
480V, 60 Hz	568.8 kVA / 455.0 kW	625.0 kVA / 500.0 kW

Ratings at 0.8 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, EN590.

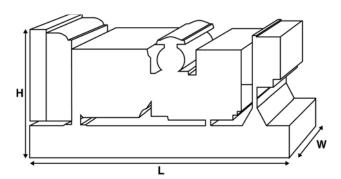




Image for illustration purposes only.

Ratings and Performance Do	ata		
Engine Make & Model:		Perkins® 2506	A-E15TAG4
Alternator manufactured for FG Wilson by:		Leroy Somer	
Alternator Model:		LL6114F	
Control Panel:		PowerWizard 1.	1+
Base Frame:		Heavy Duty Fab	oricated Steel
Circuit Breaker Type:		3 Pole MCCB	
Frequency:		50 Hz	60 Hz
Engine Speed: RPM		-	1800
Fuel Tank Capacity: litres (US gal)		888 (234.6)	
Fuel Consumption: I/hr (US gal/	hr)		
(100% Load)	- Prime	-	113.5 (30.0)
	- Standby	-	123.8 (32.7)
	- Standby	-	123.8 (32.7)

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 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 an	nd Weights			
Length (L) mm (in)	Width (W) mm (in)	Height (H) mm (in)	Dry kg (lb)	Wet kg (lb)
3800 (149.6)	1131 (44.5)	2215 (87.2)	3800 (8378)	3858 (8505)
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:		6 / In Line	
Cycle:		4 Stroke	
Bore / Stroke: mm (in)		137.0 (5.4)/171.0 (6.7)	
Induction:		Turbocharged Air To Air Charge Cooled	
Cooling Method:		Water	
Governing Type:		Electronic	
Governing Class:		ISO 8528 G2	
Compression Ratio:		16.0:1	
Displacement: I (cu. in)		15.2 (927.6)	
Moment of Inertia: kg m² (lb/in²)	4.29 (14660)	
Engine Electrical System:			
- Voltage / C	Ground	24/Negative	
- Battery Charger	Amps	70	
Weight: kg (lb)	- Dry	1633 (3600)	
	- Wet	1714 (3779)	

Performance	50 Hz	60 Hz
Engine Speed: rpm	-	1800
Gross Engine Power: kW (hp)		
- Prime	-	519.0 (696.0)
- Standby	-	568.0 (762.0)
BMEP: kPa (psi)		
- Prime	-	2307.0 (331.8)
- Standby	-	2524.0 (363.1)

Fuel System			

Fuel Filter Type:Replaceable ElementRecommended Fuel:Class A2 Diesel

Fuel Consumption: I/hr (US gal/hr)

	110%	100%	75%	50%
Prime	Load	Load	Load	Load
50 Hz	-	-	-	-
60 Hz	123.8 (32.7)	113.5 (30.0)	88.3 (23.3)	64.3 (17.0)

	100%	75%	50%
Standby	Load	Load	Load
50 Hz	-	-	-
60 Hz	123.8 (32.7)	95.7 (25.3)	69.0 (18.2)

(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:	Non	Canister
Combustion Air Flow: m³/min (cfm)		
- Prime	-	39.0 (1377)
- Standby	-	42.0 (1483)
Max. Combustion Air Intake Restriction: kPa (in H ₂ O)	-	6.2 (24.9)

Cooling System		50 Hz	60 Hz
Cooling System Capacity: 1	US gal)	-	58.1 (15.3)
Water Pump Type:		Cen	trifugal
Heat Rejected to Water & L	ube Oil:		
kW (Btu/min)	- Prime	-	158.0 (8985)
	- Standby	-	185.0 (10521)
Heat Radiation to Room: He	eat radiated from en	gine and alternat	or
kW (Btu/min)	- Prime		60.5 (3441)
	- Standby		73.6 (4186)
Radiator Fan Load: kW (hp)		-	28.0 (37.6)
Radiator Cooling Airflow: mi	³/min (cfm)	-	659.4 (23287)
External Restriction to Cooling Airflow: Pa (in H ₂ O)		-	125 (0.5)

Lubrication System	
Oil Filter Type:	Eco, Full Flow
Total Oil Capacity: I (US gal)	62.0 (16.4)
Oil Pan: I (US gal)	53.0 (14.0)
Oil Type:	API CI4 15W-40
Oil Cooling Method:	Water

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.

50 Hz	60 Hz
-	6.8 (2.0)
-	102.0 (3602)
-	112.0 (3955)
-	536 (997)
-	590 (1094)
	50 Hz

Alternator Physical Data			
Manufactured for FG Wilson by:	Leroy Somer		
Model:	LL6114F		
No. of Bearings:	1		
Insulation Class:	Н		
Winding Pitch Code:	2/3 - 6		
Wires:	12		
Ingress Protection Rating:	IP23		
Excitation System:	SHUNT		
AVR Model:	R250		

Alternator Operating Data	
Overspeed: rpm	2250
Voltage Reguation: (Steady state)	+/- 0.5%
Wave Form NEMA = TIF:	50
Wave Form IEC = THF:	2.0%
Total Harmonic content LL/LN:	4.0%
Radio Interference:	Suppression is in line with European Standard EN61000-6
Radiant Heat: kW (Btu/min)	
- 50 Hz	-
- 60 Hz	32.1 (1825)

Alternator Performance Data:	50 Hz	60 Hz		
Data Item		480/277V	380/220V	440/254V
		240/139V		220/127V
Motor Starting		1428	935	1222
Capability* kVA		1428	933	1222
Short Circuit		200	200	200
Capacity** %		300	300	300
Reactances: Per Unit				
Xd		2.910	4.640	3.460
X'd		0.150	0.240	0.180
X"d		0.105	0.167	0.125

Reactances shown are applicable to prime ratings.

*Based on 30% voltage dip at 0.6 power factor.

**With optional permanent magnet generator or SHUNT excitation.

Output Ratings Technical Data 50 Hz				
Voltage	Prime:		Standby:	
	kVA	kW	kVA	kW

Output Ratings Technical Data 60 Hz				
Voltage	Prime:		Standby:	
	kVA	kW	kVA	kW
480/277V	568.8	455.0	625.0	500.0
220/127V	568.8	455.0	625.0	500.0
380/220V	568.8	455.0	625.0	500.0
440/254V	568.8	455.0	625.0	500.0
240/139V	568.8	455.0	625.0	500.0

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. Warranty All prime equipment carries a one year manufacturer's warranty. Standby equipment, limited to 500 running hours per year, has a 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.

General Information