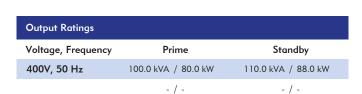




P110-6L



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.

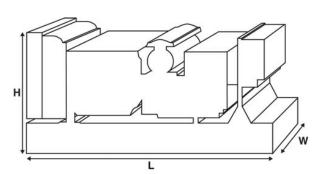




Image for illustration purposes only.

Ratings and Performance De	ata		
Engine Make & Model:		Perkins 1104D-E	44TAG2
Alternator manufactured for FG Wilson by:	•	Leroy Somer	
Alternator Model:		LL3114F	
Control Panel:		PowerWizard 1.1	
Base Frame:		Heavy Duty Fabri	icated Steel
Circuit Breaker Type:		3 Pole MCCB	
Frequency:		50 Hz	60 Hz
Engine Speed: rpm		1500	-
Fuel Tank Capacity: litres (US gal)		218 (57.6)	
Fuel Consumption: I/hr (US gal/	/hr)		
(100% Load)	- Prime	23.4 (6.2)	-
	- Standby	24.6 (6.5)	-

Available Options

 ${\sf FG}$ 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 ar	nd Weights			
Length (L) mm (in)	Width (W) mm (in)	Height (H) mm (in)	Dry kg (lb)	Wet kg (lb)
1980 (78.0)	890 (35.0)	1494 (58.8)	1125 (2480)	1142 (2518)
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. Generator set pictured may include optional accessories.

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Engine Technical Da	ıta		
No. of Cylinders / Ali	No. of Cylinders / Alignment:		
Cycle:		4 Stroke	
Bore / Stroke: mm (in)		105.0 (4.1)/127.0 (5.0)	
Induction:		Turbocharged Air To Air Charge Cooled	
Cooling Method:		Water	
Governing Type:		Electronic	
Governing Class:		ISO 8528 G2	
Compression Ratio:		16.7:1	
Displacement: I (cu. in)	4.4 (268.4)	
Moment of Inertia: k	g m² (lb/in²)	1.32 (4524)	
Engine Electrical Sys	tem:		
- Voltag	ge / Ground	12/Negative	
- Battery Cha	arger Amps	65	
Weight: kg (lb)	- Dry	439 (968)	
	- Wet	448 (988)	

Performance		50 Hz	60 Hz
Engine Speed: rpm	1	1500	-
Gross Engine Pow	ver: kW (hp)		
	- Prime	95.8 (128.0)	-
	- Standby	105.1 (141.0)	-
BMEP: kPa (psi)			
	- Prime	1742.0 (252.7)	-
	- Standby	1911.0 (277.2)	-

Fuel System	
Fuel Filter Type:	Replaceable Element
Recommended Fuel:	Class A2 Diesel or BSEN590

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

	110%	100%	75%	50%
Prime	Load	Load	Load	Load
50 Hz	24.6 (6.5)	23.4 (6.2)	19.5 (5.2)	14.6 (3.9)
60 Hz	-	-	-	-

Standby	100% Load	75% Load	50% Load
50 Hz	24.6 (6.5)	20.7 (5.5)	15.6 (4.1)
60 Hz	-	-	-

(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:		Paper El	ement
Combustion Air Flow: m³/min (o	cfm)		
	- Prime	6.4 (227)	-
	- Standby	6.7 (238)	-
Max. Combustion Air Intake Restriction: kPa (in H ₂ O)		5.0 (20.1)	-

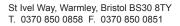
Cooling System	50 Hz	60 Hz
Cooling System Capacity: I (US gal)	17.0 (4.5)	-
Water Pump Type:	Centri	ifugal
Heat Rejected to Water & Lube Oil:		
kW (Btu/min) - Prime	47.1 (2679)	-
- Standby	51.9 (2952)	-
Heat Radiation to Room: Heat radiated from	engine and alternator	
kW (Btu/min) - Prime	20.0 (1137)	
- Standby	22.1 (1257)	
Radiator Fan Load: kW (hp)	2.8 (3.8)	-
Radiator Cooling Airflow: m³/min (cfm)	201.0 (7098)	-
External Restriction to Cooling Airflow: Pa (in H ₂ O)	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)	8.4 (2.2)
Oil Pan: I (US gal)	6.9 (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)	15.0 (4.4)	-
Exhaust Gas Flow: m³/min (cfm)		
- Prime	16.4 (580)	-
- Standby	17.4 (614)	-
Exhaust Gas Temperature: °C (°F)		
- Prime	657 (1215)	-
- Standby	675 (1247)	-











Alternator Physical Data	
Manufactured for FG Wilson by:	Leroy Somer
Model:	LL3114F
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 Regulation: (Steady state)	+/- 0.5%				
Wave Form NEMA = TIF:	50				
Wave Form IEC = THF:	2.0%				
Total Harmonic content LL/LN:	2.0%				
Radio Interference:	Suppression is in line with European Standard EN61000-6				
Radiant Heat: kW (Btu/min)					
- 50 Hz	7.8 (444)				
- 60 Hz	-				

Alternator Performance Data:	50 Hz				60 Hz	
Data Item	415/240V	400/230V	380/220V			
Motor Starting Capability* kVA	256	240	220			
Short Circuit Capacity** %	300	300	300			
Reactances: Per Unit						
Xd	2.666	2.870	3.180			
X'd	0.120	0.129	0.143			
X"d	0.072	0.077	0.086			

Output Ratings Technical Data 50 Hz					
Voltage	Prir	ne:	Standby:		
	kVA	kW	kVA	kW	
415/240V	100.0	80.0	110.0	88.0	
400/230V	100.0	80.0	110.0	88.0	
380/220V	100.0	80.0	110.0	88.0	

Output Ratings Technical Data 60 Hz					
Voltage	Prime:		Standby:		
	kVA	kVA kW		kW	



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

General Information

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.



