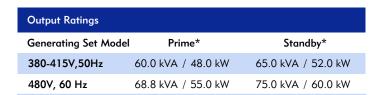


www.FGWilson.com

P65-3



Ratings at 0.8 power factor.

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.

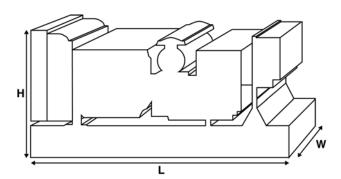




Image for illustration purposes only.

Ratings and Performance Do	ıta		
Engine Make & Model:	F	Perkins 1104A-4	44TG1
Alternator manufactured for FG Wilson by:	ι	_eroy Somer	
Alternator Model:	l	LL2014H	
Control Panel:	1	1002T	
Base Frame:	F	Fbc2 - (08Hr)	
Circuit Breaker Type:	()	
Frequency:		50 Hz	60 Hz
Engine Speed: RPM		1500	1800
Fuel Tank Capacity: litres (US gal)		219 (57.9)
Fuel Consumption: I/hr (US gal/	hr)		
(100% Load)	- Prime	13.4 (3.5)	15.8 (4.2)
	- Standby	14.6 (3.9)	17.3 (4.6)

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 ar	nd Weights			
Length (L) mm (in)	Width (W) mm (in)	Height (H) mm (in)	Dry kg (lb)	Wet kg (lb)
1925 (75.8)	1120 (44.1)	1361 (53.6)	1007 (2220)	1058 (2332)
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. Generating set pictured may include optional accessories.

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Engine Technical Data		
No. of Cylinders / Alignment:	4 / In Line	
Cycle:	4 Stroke	
Bore / Stroke: mm (in)	105.0 (4.1)/127.0 (5.0)	
Induction:	Turbocharged	
Cooling Method:	Water	
Governing Type:	Mechanical	
Governing Class:	ISO 8528 G2	
Compression Ratio:	17.25:1	
Displacement: I (cu. in)	4.4 (268.5)	
Moment of Inertia: kg m² (lb/in²)	1.14 (3896)	
Engine Electrical System:		
- Voltage / Ground	12/Negative	
- Battery Charger Amps	65	
Weight: kg (lb) - Dry	463 (1021)	
- Wet	485 (1069)	

Performance		50 Hz	60 Hz
Engine Speed: rpm	I	1500	1800
Gross Engine Pow	ver: kW (hp)		
	- Prime	59.6 (80.0)	70.7 (95.0)
	- Standby	65.6 (88.0)	77.8 (104.0)
BMEP: kPa (psi)			
	- Prime	1084.0 (157.2)	1071.0 (155.4)
	- Standby	1193.0 (173.0)	1179.0 (171.0)

	System
ruei	System

Fuel Filter Type:Replaceable ElementRecommended Fuel:Class A2 Diesel

 $\pmb{Fuel\ Consumption:}\ \textit{I/hr}\ (\textit{US\ gal/hr})$

	110%	100%	75%	50%
Prime	Load	Load	Load	Load
50 Hz	14.6 (3.9)	13.4 (3.5)	10.2 (2.7)	7.5 (2.0)
60 Hz	17.3 (4.6)	15.8 (4.2)	12.1 (3.2)	9.0 (2.4)

	110%	100%	75%	50%
Standby	Load	Load	Load	Load
50 Hz		14.6 (3.9)	11.0 (2.9)	7.9 (2.1)
60 Hz		17.3 (4.6)	13.1 (3.5)	9.5 (2.5)

(Based on diesel fuel with a specific gravity of 0.84 and conforming to BS2869, Class A2) $\,$

Air Systems		50 Hz	60 Hz
Air Filter Type:		Replaceable Element	
Combustion Air Flow: m³/min	(cfm)		
	- Prime	4.0 (141)	5.3 (187)
	- Standby	4.2 (148)	5.5 (194)
Max. Combustion Air Intate Restriction: kPa (in H_2O)		8.0 (32.1)	8.0 (32.1)

Cooling System		50 Hz	60 Hz
Cooling System Capacity: I (US gal)		13.0 (3.4)	13.0 (3.4)
Water Pump Type:		Centrifugal	
Heat Rejected to Water & Lube Oil:			
kW (Btu/min) - Pri	те 3	37.0 (2104)	43.0 (2445)
- Stand	lby 4	11.0 (2332)	48.0 (2730)
Heat Radiation to Room: Heat radiated f	rom engi	ine and alternato	r
kW (Btu/min) - Pri	me	15.1 (859)	18.0 (1024)
- Stand	lby	16.8 (955)	19.9 (1132)
Radiator Fan Load: kW (hp)		1.0 (1.3)	1.7 (2.3)
Radiator Cooling Airflow: m³/min (cfm)	13	21.2 (4280)	140.4 (4958)
External Restriction to Cooling Airflow: Pa (in H ₂ O)		120 (0.5)	120 (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)	8.0 (2.1)
Oil Pan: I (US gal)	7.0 (1.8)
Oil Type:	API CG4 / CH4 15W-40
Oil Cooling Method:	Water

Exhaust System	50 Hz	60 Hz
Silencer Type:	Indu	strial
Silencer Model & Quantity:	SD8	0 (1)
Pressure Drop Across Silencer System: kPa (in Hg)	0.90 (0.266)	1.64 (0.484)
Silencer Noise Reduction Level: dB	16	15
Maximum Allowable Back Pressure: kPa (in Hg)	10.0 (3.0)	15.0 (4.4)
Exhaust Gas Flow: m³/min (cfm)		
- Prime	9.4 (332)	11.3 (399)
- Standby	9.8 (346)	11.7 (413)
Exhaust Gas Temperature: °C (°F)		
- Prime	416 (781)	401 (754)
- Standby	428 (802)	414 (777)

Alternator Physical Data	
Manufactured for FG Wilson by:	Leroy Somer
Model:	LL2014H
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	5.8 (330)
- 60 Hz	6.9 (392)

Alternator Performance Data:	50 Hz			60 Hz					
Data Item	415/240V	400/230V 230/115V 200/115V	380/220V 220/110V	220/127V	480/277V 240/139V	380/220V 220/110V	240/120V 208/120V	230/115V	440/254V 220/127V
Motor Starting Capability* kVA	148	139	128	164	163	109	127	119	140
Short Circuit Capacity** %	300	300	300	300	300	300	300	300	300
Reactances: Per Unit									
Xd	2.460	2.650	2.940	2.190	2.530	4.040	3.370	3.650	3.010
X'd	0.090	0.100	0.110	0.080	0.090	0.150	0.120	0.130	0.110
X"d	0.046	0.049	0.054	0.041	0.047	0.075	0.062	0.068	0.056

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.

Voltage Technical Data 50 Hz					
Voltage	Pri	me:	Standby:		
	kVA	kW	kVA	kW	
415/240V	60.0	48.0	65.0	52.0	
400/230V	60.0	48.0	65.0	52.0	
380/220V	60.0	48.0	65.0	52.0	
230/115V	60.0	48.0	65.0	52.0	
220/127V	60.0	48.0	65.0	52.0	
220/110V	60.0	48.0	65.0	52.0	
200/115V	60.0	48.0	65.0	52.0	

Voltage Technical Data 60 Hz					
Voltage	Pri	me:	Standby:		
	kVA	kW	kVA	kW	
480/277V	68.8	55.0	75.0	60.0	
220/127V	68.8	55.0	75.0	60.0	
380/220V	68.8	55.0	75.0	60.0	
240/120V	68.8	55.0	75.0	60.0	
230/115V	68.8	55.0	75.0	60.0	
440/254V	68.8	55.0	75.0	60.0	
220/110V	68.8	55.0	75.0	60.0	
208/120V	68.8	55.0	75.0	60.0	
240/139V	68.8	55.0	75.0	60.0	

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 two year manufacturer's warranty. For details on warranty cover please contact your local Dealer, or visit our website: FGWilson.com.
Dealer contact details:

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