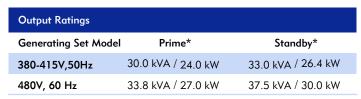


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P33-1



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.

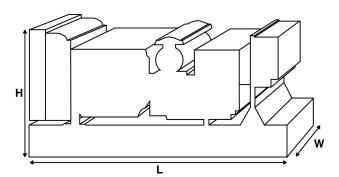




Image for illustration purposes only.

Ratings and Performance Dat	a		
Engine Make & Model:	F	erkins 1103A-3	33G1
Alternator manufactured for FG Wilson by:	L	eroy Somer	
Alternator Model:	L	L1014S	
Control Panel:	1	002T	
Base Frame:	F	bc2 - (08Hr)	
Circuit Breaker Type:	3	Pole MCCB / 3	Pole MCCB
Frequency:		50 Hz	60 Hz
Engine Speed: RPM		1500	1800
Fuel Tank Capacity: litres (US gal)		161 (42.5)	
Fuel Consumption: I/hr (US gal/hr)		
(100% Load)	Prime	6.9 (1.8)	8.0 (2.1)
	Standby	7.6 (2.0)	8.9 (2.4)

Available Options

- CE Certification
- Sound Attenuated EC Enclosures
- Control Panel Upgrades
- Range of Silencers
- Range of Remote Fuel Systems
- Range of Alarms and Shutdowns

Dimensions an	nd Weights			
Length (L) mm (in)	Width (W) mm (in)	Height (H) mm (in)	Dry kg (lb)	Wet kg (lb)
1540 (60.6)	970 (38.2)	1361 (53.6)	827 (1823)	840 (1852)
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.

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Engine Technical Data		
No. of Cylinders / Alignment:	3 / In Line	
Cycle:	4 Stroke	
Bore / Stroke: mm (in)	105.0 (4.1)/127.0 (5.0)	
Induction:	Naturally Aspirated	
Cooling Method:	Water	
Governing Type:	Mechanical	
Governing Class:	ISO 8528 G2	
Compression Ratio:	19.25:1	
Displacement: I (cu. in)	3.3 (201.4)	
Moment of Inertia: kg m² (lb/in²)	1.14 (3896)	
Engine Electrical System:		
Voltage / GroundBattery Charger Amps	12/Negative 65	
Weight: kg (lb) - Dry - Wet	412 (908) 430 (948)	

Performance	50 Hz	60 Hz
Engine Speed: rpm	1500	1800
Gross Engine Power: kW (hp)		
- Prime	28.2 (38.0)	33.1 (44.0)
- Standby	31.0 (42.0)	36.5 (49.0)
BMEP: kPa (psi)		
- Prime	684.0 (99.2)	669.0 (97.0)
- Standby	752.0 (109.0)	738.0 (107.0)

Fual	·c.	/stem
Fuei	-51	/stem

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	7.6 (2.0)	6.9 (1.8)	5.2 (1.4)	3.8 (1.0)
60 Hz	8.9 (2.4)	8.0 (2.1)	6.2 (1.6)	4.7 (1.2)

Standby	110% Load	100% Load	75% Load	50% Load
50 Hz		7.6 (2.0)	5.7 (1.5)	4.1 (1.1)
60 Hz		8.9 (2.4)	6.8 (1.8)	5.0 (1.3)

(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:		Replaceab	le Element
Combustion Air Flow: m³/min	(cfm)		
	- Prime	2.2 (76)	2.6 (92)
	- Standby	2.2 (76)	2.6 (91)
Max. Combustion Air Intate Restriction: kPa (in H_2O)		6.5 (26.1)	6.5 (26.1)

Cooling System		50 Hz	60 Hz
Cooling System Capacity: I (US	gal)	10.2 (2.7)	10.2 (2.7)
Water Pump Type:		Centr	ifugal
Heat Rejected to Water & Luk	e Oil:		
kW (Btu/min)	- Prime	16.0 (910)	18.0 (1024)
	- Standby	18.0 (1024)	22.0 (1251)
Heat Radiation to Room: Heat radiated from engine and alternator			
kW (Btu/min)	- Prime	5.0 (284)	5.0 (284)
	- Standby	6.0 (341)	6.0 (341)
Radiator Fan Load: kW (hp)		0.3 (0.4)	0.5 (0.7)
Radiator Cooling Airflow: m³/m	nin (cfm)	62.6 (2211)	84.8 (2995)
External Restriction to Cooling Airflow: Pa (in H ₂ O)		125 (0.5)	125 (0.5)

Cooling system 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)	8.3 (2.2)
Oil Pan: I (US gal)	7.8 (2.1)
Oil Type:	API CG4 / CH4 15W-40
Oil Cooling Method:	Water

Exhaust System	50 Hz	60 Hz
Silencer Type:	Indu	ıstrial
Silencer Model & Quantity:	SD5	0 (1)
Pressure Drop Across Silencer System: kPa (in Hg)	1.80 (0.532)	2.00 (0.591)
Silencer Noise Reduction Level: dB	20	19
Maximum Allowable Back Pressure: kPa (in Hg)	8.0 (2.4)	10.0 (3.0)
Exhaust Gas Flow: m³/min (cfm)		
- Prime	5.7 (201)	6.4 (226)
- Standby	5.8 (205)	6.6 (233)
Exhaust Gas Temperature: °C (°F)		
- Prime	500 (932)	520 (968)
- Standby	520 (968)	530 (986)

Alternator Physical Data	
Manufactured for FG Wilson by:	Leroy Somer
Model:	LL1014S
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	3.3 (188)
- 60 Hz	3.7 (210)

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	64	60	55	71	70	47	55	52	61
Short Circuit Capacity** %	300	300	300	300	300	300	300	300	300
Reactances: Per Unit									
Xd	1.970	2.120	2.350	1.750	1.990	3.170	2.650	2.860	2.370
X'd	0.100	0.110	0.120	0.090	0.110	0.170	0.140	0.150	0.130
X"d	0.052	0.056	0.062	0.046	0.053	0.084	0.070	0.076	0.063

Reactances shown are applicable to prime ratings.

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

**With optional permanent magnet generator or AREP excitation.

Voltage Technical Data 50 Hz					
Voltage	Prir	me:	Standby:		
	kVA	kW	kVA	kW	
415/240V	30.0	24.0	33.0	26.4	
400/230V	30.0	24.0	33.0	26.4	
380/220V	30.0	24.0	33.0	26.4	
230/115V	30.0	24.0	33.0	26.4	
220/127V	30.0	24.0	33.0	26.4	
220/110V	30.0	24.0	33.0	26.4	
200/115V	30.0	24.0	33.0	26.4	

Voltage Technical Data 60 Hz					
Voltage	Pri	me:	Standby:		
	kVA	kW	kVA	kW	
480/277V	33.8	27.0	37.5	30.0	
220/127V	33.8	27.0	37.5	30.0	
380/220V	33.8	27.0	37.4	29.9	
240/120V	33.8	27.0	37.5	30.0	
230/115V	33.8	27.0	37.5	30.0	
440/254V	33.8	27.0	37.5	30.0	
220/110V	33.8	27.0	37.4	29.9	
208/120V	33.8	27.0	37.5	30.0	
240/139V	33.8	27.0	37.5	30.0	

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 warranty. For details on warranty cover please contact your local Dealer, or visit our website: FGWilson.com.
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