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P65-1

Output Ratings		
Generating Set Model	Prime*	Standby*
380-415V,50Hz	60.0 kVA / 48.0 kW	65.0 kVA / 52.0 kW
480V, 60 Hz	68.8 kVA / 55.0 kW	75.0 kVA / 60.0 kW

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.

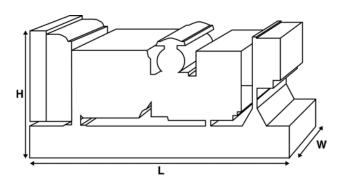




Image for illustration purposes only.

Ratings and Performance Date	1			
Engine Make & Model:	ı	Perkins 1103A-3	3TG2	
Alternator manufactured for FG Wilson by:		Leroy Somer		
Alternator Model:	I	LL2014H		
Control Panel:		1002T		
Base Frame:	i	Fbc2 - (08Hr)		
Circuit Breaker Type:	;	3 Pole MCB / 3 Pole MCCB		
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	13.8 (3.6)	15.9 (4.2)	
	Standby	15.1 (4.0)	17.4 (4.6)	

Available Options

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

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)	967 (2131)	980 (2161)
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:	Turbocharged
Cooling Method:	Water
Governing Type:	Mechanical
Governing Class:	ISO 8528 G2
Compression Ratio:	17.25:1
Displacement: I (cu. in)	3.3 (201.4)
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	420 (926)
- Wet	438 (966)

Performance	50 Hz	60 Hz
Engine Speed: rpm	1500	1800
Gross Engine Power: kW (hp)		
- Prime	55.0 (74.0)	63.3 (85.0)
- Standby	60.5 (81.0)	69.6 (93.0)
BMEP: kPa (psi)		
- Prime	1333.0 (193.4)	1279.0 (185.5)
- Standby	1467.0 (212.8)	1407.0 (204.0)

E	System
ruei	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	15.1 (4.0)	13.8 (3.6)	10.3 (2.7)	7.3 (1.9)
60 Hz	17.4 (4.6)	15.9 (4.2)	12.0 (3.2)	8.8 (2.3)

	110%	100%	75%	50%
Standby	Load	Load	Load	Load
50 Hz		15.1 (4.0)	11.1 (2.9)	7.7 (2.0)
60 Hz		17.4 (4.6)	13.0 (3.4)	9.3 (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	3.8 (134)	4.7 (166)
	- Standby	3.9 (138)	4.9 (173)
Max. Combustion Air Intate Restriction: kPa (in H ₂ O)		8.0 (32.1)	8.0 (32.1)

Cooling System	50 Hz	z 60 Hz
Cooling System Capacity: I (US gal)	10.2 (2	.7) 10.2 (2.7)
Water Pump Type:		Centrifugal
Heat Rejected to Water & Lube Oil:		
kW (Btu/min) - Pri	me 35.2 (20	002) 41.0 (2332)
- Stan	dby 37.7 (21	44) 42.8 (2434)
Heat Radiation to Room: Heat radiated	from engine and al	ternator
kW (Btu/min) - Pri	me 10.0 (5d	69) 11.0 (626)
- Stan	dby 11.0 (62	26) 11.0 (626)
Radiator Fan Load: kW (hp)	1.0 (1.	3) 1.7 (2.3)
Radiator Cooling Airflow: m3/min (cfm)	110.4 (38	899) 145.8 (5149)
External Restriction to Cooling Airflow: Pa (in H ₂ O)	120 (0.	.5) 120 (0.5)

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

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.

Exhaust System	50 Hz	60 Hz
Silencer Type:	Indu	ıstrial
Silencer Model & Quantity:	SD8	0 (1)
Pressure Drop Across Silencer System: kPa (in Hg)	0.98 (0.289)	1.22 (0.360)
Silencer Noise Reduction Level: dB	19	18
	10.0 (3.0)	15.0 (4.4)
Exhaust Gas Flow: m3/min (cfm)		
- Prime	10.1 (357)	11.8 (417)
- Standby	10.4 (367)	12.5 (441)
Exhaust Gas Temperature: °C (°F)		
- Prime	557 (1035)	534 (993)
- Standby	571 (1060)	564 (1047)

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 AREP excitation.

Voltage Technical Data 50 Hz					
Voltage	Priı	ne:	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	68.7	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	68.7	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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