

P55-1

0	utput	Rating

Generating Set Mode	I Prime*	Standby*
380-415V,50Hz	50.0 kVA / 40.0 kW	55.0 kVA / 44.0 kW
480V, 60 Hz	56.3 kVA / 45.0 kW	62.5 kVA / 50.0 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.

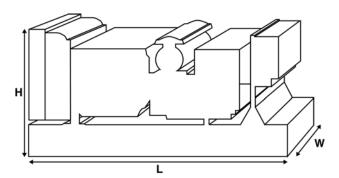




Image for illustration purposes only.

Р	erkins 1103A-3	3TG2
Le	eroy Somer	
L	L2014D	
10	002T	
F	bc2 - (08Hr)	
Circuit Breaker Type: 3 Pole MCB / 3 Pole MCC		Pole MCCB
	50 Hz	60 Hz
	1500	1800
Fuel Tank Capacity:219 (57.9)litres (US gal)219 (57.9)		57.9)
Prime	11.8 (3.1)	13.3 (3.5)
andby	13.0 (3.4)	14.8 (3.9)
	L L I F	50 Hz 1500 219 (1 Prime 11.8 (3.1)

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

◆Not available from our Chinese facility – Tianjin.

Dimensions and 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)	917 (2021)	930 (2050)
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 m ² (Ib/in	²⁾ 1.14 (3896)			
Engine Electrical System:				
- Voltage / Gro	und 12/Negative			
- Battery Charger Ar	nps 65			
Weight: kg (lb)	Dry 420 (926)			
- '	Wet 438 (966)			

Performance		50 Hz	60 Hz
Engine Speed: rpm	ı	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)

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F	Fuel System					
Fuel Filter Type: Replaceable Element			nent			
Recommended Fuel:		C	Class A2 Diesel			
F	uel Consun	nption: I/hr (US g	jal/hr)			
		110%	100%	75%	50%	
	Prime	Load	Load	Load	Load	
	50 Hz	13.0 (3.4)	11.8 (3.1)	8.9 (2.4)	6.4 (1.7)	
	60 Hz	14.8 (3.9)	13.3 (3.5)	10.4 (2.7)	7.9 (2.1)	
		110%	100%	75%	50%	
	Standby	Load	Load	Load	Load	
	50 Hz		13.0 (3.4)	9.7 (2.6)	6.9 (1.8)	

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

14.8 (3.9)

11.3 (3.0)

8.3 (2.2)

60 Hz

Air Systems	50 Hz	60 Hz
Air Filter Type:	Replacea	ble Element
Combustion Air Flow: m ³ /min (cfm)		
- Prim	e 3.7 (131)	4.5 (159)
- Standt	y 3.8 (134)	4.6 (162)
Max. Combustion Air Intate Restriction: kPa (in H ₂ O)	8.0 (32.1)	8.0 (32.1)

Cooling System	50 Hz	60 Hz		
Cooling System Capacity: I (US gal)	10.2 (2.7)	10.2 (2.7)		
Water Pump Type:	Cen	Centrifugal		
Heat Rejected to Water & Lube Oil:				
kW (Btu/min) - Prin	ne 30.9 (1757)	37.9 (2155)		
- Stand	by 33.5 (1905)	39.7 (2258)		
Heat Radiation to Room: Heat radiated from engine and alternator				
kW (Btu/min) - Prin	ne 14.2 (808)	15.9 (904)		
- Stand	by 16.1 (916)	17.9 (1018)		
Radiator Fan Load: kW (hp)	1.0 (1.3)	1.7 (2.3)		
Radiator Cooling Airflow: m³/min (cfm)	110.4 (3899)	145.8 (5149)		
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)	8.3 (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	Industrial		
Silencer Model & Quantity:	SD8	SD80 (1)		
Pressure Drop Across Silencer System: kPa (in Hg)	0.82 (0.242)	1.08 (0.319)		
Silencer Noise Reduction Level: dB	16	18		
Maximum Allowable Back Pressure: ^{kPa} (in Hg)	10.0 (3.0)	15.0 (4.4)		
Exhaust Gas Flow: m³/min (cfm)				
- Prime	8.4 (297)	9.8 (346)		
- Standby	8.8 (311)	10.6 (374)		
Exhaust Gas Temperature: °C (°F)				
- Prime	464 (867)	445 (833)		
- Standby	483 (901)	477 (891)		

Alternator Physical Data	
Manufactured for FG Wilson by:	Leroy Somer
Model:	LL2014D
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 L	4.0%							
Radio Interference:		Suppression is in line with European Standard EN61000-6						
Radiant Heat: kW (Btu/min)								
- !	50 Hz	6.1 (347)						
- (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	440/254∨ 220/127∨
Motor Starting Capability* kVA	105	99	90	116	115	77	90	84	99
Short Circuit Capacity** %	300	300	300	300	300	300	300	300	300
Reactances: Per Unit									
Xd	2.550	2.750	3.040	2.270	2.580	4.110	3.430	3.710	3.070
X'd	0.110	0.120	0.130	0.100	0.110	0.170	0.150	0.160	0.130
X"d	0.055	0.059	0.065	0.049	0.055	0.088	0.073	0.079	0.066

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 Technical Data 60 Hz				
Voltage	Prime:		Standby:		Voltage	Prime:		Standby:	
	kVA	kW	kVA	kW		kVA	kW	kVA	
415/240V	50.0	40.0	55.0	44.0	480/277V	56.3	45.0	62.5	
400/230V	50.0	40.0	55.0	44.0	220/127V	56.3	45.0	62.5	
380/220V	50.0	40.0	55.0	44.0	380/220V	54.0	43.2	59.4	
230/115V [◆]	50.0	40.0	55.0	44.0	240/120V	56.3	45.0	62.5	
220/127V	47.0	37.6	52.0	41.6	230/115V	56.3	45.0	62.5	
220/110V*	50.0	40.0	55.0	44.0	440/254V	56.3	45.0	62.5	
200/115V [◆]	50.0	40.0	55.0	44.0	220/110V ◆	54.0	43.2	59.4	
					208/120V*	56.3	45.0	62.5	
					240/139V [◆]	56.3	45.0	62.5	

◆Not available from our Chinese facility – Tianjin.

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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