



www.FGWilson.com

P55-4



Image for illustration purposes only.

Output Ratings

Voltage, Frequency	Prime	Standby
400V, 50 Hz	50.0 kVA / 40.0 kW	55.0 kVA / 44.0 kW
480V, 60 Hz	- / -	- / -

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.

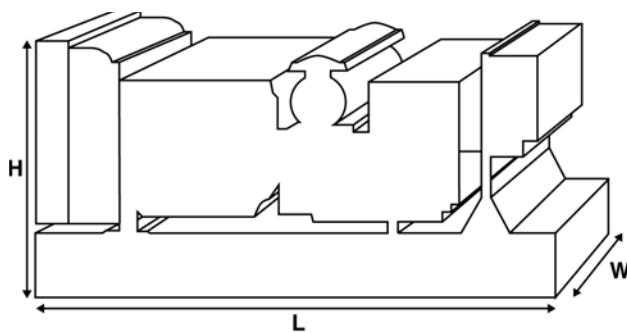
Standby Rating

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.



Ratings and Performance Data

Engine Make & Model:	Perkins® 1104C-44TG2/3		
Alternator manufactured for FG Wilson by:	Marelli		
Alternator Model:	MJB 200 SB4		
Control Panel:	DCP-10		
Base Frame:	Heavy Duty Fabricated Steel		
Circuit Breaker Type:	3 Pole MCB		
Frequency:	50 Hz	60 Hz	
Engine Speed: RPM	1500	-	
Fuel Tank Capacity: litres (US gal)	180 (47.6)		
Fuel Consumption: l/hr (US gal/hr)			
(100% Load)	- Prime	15.9 (4.2)	-
	- Standby	17.4 (4.6)	-

Available Options

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 and Weights

Length (L) mm (in)	Width (W) mm (in)	Height (H) mm (in)	Dry kg (lb)	Wet kg (lb)
1870 (73.6)	840 (33.1)	1336 (52.6)	851 (1876)	864 (1905)

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.

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:		18.2:1
Displacement: l (cu. in)		4.4 (268.5)
Moment of Inertia: kg m ² (lb/in ²)		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	1500	-
Gross Engine Power: kW (hp)		
- Prime	56.2 (75.0)	-
- Standby	62.5 (84.0)	-
BMEP: kPa (psi)		
- Prime	1022.0 (148.2)	-
- Standby	1137.0 (164.9)	-

Fuel System				
Fuel Filter Type:		Replaceable Element		
Recommended Fuel:		Class A2 Diesel or BSEN590		
Fuel Consumption: l/hr (US gal/hr)				
Prime	Load	Load	Load	Load
50 Hz	17.4 (4.6)	15.9 (4.2)	12.0 (3.2)	8.1 (2.1)
60 Hz	-	-	-	-
Standby	Load	Load	Load	Load
50 Hz	17.4 (4.6)	13.1 (3.5)	8.9 (2.4)	-
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:		Replaceable Element	
Combustion Air Flow: m ³ /min (cfm)			
- Prime		4.3 (153)	-
- Standby		4.4 (156)	-
Max. Combustion Air Intake Restriction: kPa (in H ₂ O)		8.0 (32.1)	-

Cooling System	50 Hz	60 Hz
Cooling System Capacity: l (US gal)	12.6 (3.3)	-
Water Pump Type:	Centrifugal	
Heat Rejected to Water & Lube Oil:		
kW (Btu/min)	- Prime	38.0 (2161)
	- Standby	42.0 (2388)
Heat Radiation to Room: Heat radiated from engine and alternator		
kW (Btu/min)	- Prime	14.6 (830)
	- Standby	18.9 (1075)
Radiator Fan Load: kW (hp)	1.0 (1.3)	-
Radiator Cooling Airflow: m ³ /min (cfm)	97.8 (3454)	-
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	50 Hz	60 Hz
Oil Filter Type:	Spin-On, Full Flow	
Total Oil Capacity: l (US gal)	8.0 (2.1)	-
Oil Pan: l (US gal)	7.0 (1.8)	-
Oil Type:	API CC/SE	
Oil Cooling Method:	Water	

Exhaust System	50 Hz	60 Hz
Maximum Allowable Back Pressure: kPa (in Hg)	12.0 (3.5)	-
Exhaust Gas Flow: m ³ /min (cfm)		
- Prime	9.0 (318)	-
- Standby	10.0 (353)	-
Exhaust Gas Temperature: °C (°F)		
- Prime	446 (835)	-
- Standby	493 (919)	-

Alternator Physical Data	
Manufactured for FG Wilson by:	Marelli
Model:	MJB 200 SB4
No. of Bearings:	1
Insulation Class:	H
Winding Pitch Code:	2/3 - M0
Wires:	12
Ingress Protection Rating:	IP23
Excitation System:	SHUNT
AVR Model:	Mark V

Alternator Operating Data	
Overspeed: rpm	2250
Voltage Regulation: (Steady state)	+/- 1.0%
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 EN55011
Radiant Heat: kW (Btu/min)	
- 50 Hz	5.9 (336)
- 60 Hz	-

Alternator Performance Data:		50 Hz			60 Hz	
Data Item		415/240V	400/230V	380/220V		
		50	50	50		
Short Circuit Capacity %		-	-	-		
Reactances: Per Unit						
X _d		3.520	3.790	4.070		
X' _d		0.320	0.340	0.370		
X" _d		0.135	0.145	0.156		

Reactances shown are applicable to prime ratings.

*Based on 30% voltage dip at 0 power factor.

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 II emissions compliant.

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:

FG Wilson manufactures product in the following locations:

Northern Ireland • Brazil • China • India • USA

With headquarters in Northern Ireland, FG Wilson operates through a Global Dealer Network.

To contact your local Sales Office please visit the FG Wilson website at www.FGWilson.com.

FG Wilson is a trading name of Caterpillar (NI) Limited.