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# P200-1



Image for illustration purposes only.

## Output Ratings

Generating Set Model	Prime	Standby
<b>380-415V, 50Hz</b>	180.0 kVA / 144.0 kW	200.0 kVA / 160.0 kW
	- / -	- / -

Ratings at 0.8 power factor.

## Prime Rating

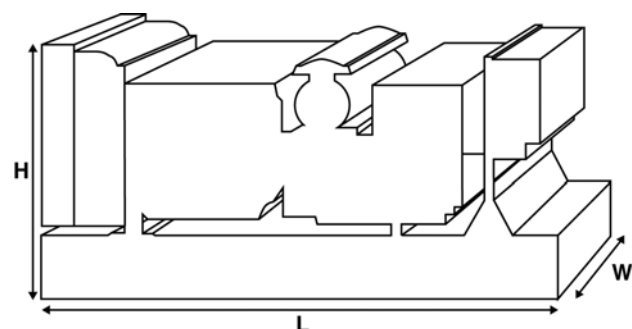
These ratings are applicable for supplying continuous electrical power (at variable load) in lieu of commercially purchased power. There is no limitation to the annual hours of operation and this model can supply 10% overload power for 1 hour in 12 hours.

## 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.



## Ratings and Performance Data

<b>Engine Make &amp; Model:</b>	Perkins™ 1106A-70TAG3	
<b>Alternator manufactured for FG Wilson by:</b>	Leroy Somer	
<b>Alternator Model:</b>	LL5014D	
<b>Control Panel:</b>	DCP-10	
<b>Base Frame:</b>	Heavy Duty Fabricated Steel	
<b>Circuit Breaker Type:</b>	3 Pole MCCB	
<b>Frequency:</b>	<b>50 Hz</b>	<b>60 Hz</b>
<b>Engine Speed: RPM</b>	1500	-
<b>Fuel Tank Capacity:</b> litres (US gal)	418 (110.4)	
<b>Fuel Consumption:</b> l/hr (US gal/hr)		
(100% Load)	- Prime	40.2 (10.6)
	- Standby	43.8 (11.6)

## 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](http://www.FGWilson.com)

## Dimensions and Weights

Length (L) mm (in)	Width (W) mm (in)	Height (H) mm (in)	Dry kg (lb)	Wet kg (lb)
2500 (98.4)	1320 (52.0)	1626 (64.0)	1691 (3728)	1718 (3788)
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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Northern Ireland • Brazil • China • India • USA

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

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Engine Technical Data		
No. of Cylinders / Alignment:		6 / In Line
Cycle:		4 Stroke
Bore / Stroke: mm (in)		105.0 (4.1)/135.0 (5.3)
Induction:		Turbocharged Air To Air Charge Cooled
Cooling Method:		Water
Governing Type:		Mechanical
Governing Class:		ISO 8528 G2
Compression Ratio:		16.0:1
Displacement: l (cu. in)		7.0 (427.8)
Moment of Inertia: kg m² (lb/in²)		1.26 (4306)
Engine Electrical System:		
- Voltage / Ground		12/Negative
- Battery Charger Amps		85
Weight: kg (lb)	- Dry	788 (1737)
	- Wet	822 (1812)

Performance	50 Hz	60 Hz
Engine Speed: rpm	1500	-
Gross Engine Power: kW (hp)		
- Prime	167.6 (225.0)	-
- Standby	185.5 (249.0)	-
BMEP: kPa (psi)		
- Prime	1912.0 (277.3)	-
- Standby	2116.0 (306.9)	-

Fuel System				
Fuel Filter Type:		Replaceable element		
Recommended Fuel:		Class A2 Diesel or BSEN590		
Fuel Consumption: l/hr (US gal/hr)				
	110%	100%	75%	50%
Prime	Load	Load	Load	Load
50 Hz	43.8 (11.6)	40.2 (10.6)	30.9 (8.2)	19.7 (5.2)
60 Hz	-	-	-	-
	100%	75%	50%	
Standby	Load	Load	Load	
50 Hz	43.8 (11.6)	34.2 (9.0)	22.3 (5.9)	
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: Paper Element		
Combustion Air Flow: m³/min (cfm)		
- Prime	13.0 (457)	-
- Standby	13.9 (490)	-
Max. Combustion Air Intake Restriction: kPa (in H <sub>2</sub> O)	3.0 (12.0)	-

Cooling System	50 Hz	60 Hz
Cooling System Capacity: l (US gal)	27.0 (7.1)	-
Water Pump Type:	Centrifugal	
Heat Rejected to Water & Lube Oil:		
kW (Btu/min)	- Prime 74.2 (4220)	-
	- Standby 76.4 (4345)	-
Heat Radiation to Room: Heat radiated from engine and alternator		
kW (Btu/min)	- Prime 34.1 (1938)	
	- Standby 37.6 (2140)	
Radiator Fan Load: kW (hp)	6.3 (8.5)	-
Radiator Cooling Airflow: m³/min (cfm)	307.2 (10849)	-
External Restriction to Cooling Airflow: Pa (in H <sub>2</sub> 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	
Oil Filter Type:	Spin-On, Full Flow
Total Oil Capacity: l (US gal)	16.5 (4.4)
Oil Pan: l (US gal)	14.9 (3.9)
Oil Type:	API CH4 / CI4 15W-40
Oil Cooling Method:	Water

Exhaust System	50 Hz	60 Hz
Silencer Type: Industrial		
Silencer Model & Quantity: SD100 (1)		
Pressure Drop Across Silencer System: kPa (in Hg)	2.14 (0.632)	-
Silencer Noise Reduction Level: dB	14	-
Maximum Allowable Back Pressure: kPa (in Hg)	6.0 (1.8)	-
Exhaust Gas Flow: m³/min (cfm)		
- Prime	31.4 (1110)	-
- Standby	33.9 (1195)	-
Exhaust Gas Temperature: °C (°F)		
- Prime	489 (912)	-
- Standby	538 (1000)	-

Alternator Operating Data	
<b>Overspeed:</b> rpm	2250
<b>Voltage Regulation:</b> (Steady state)	+/- 0.5%
<b>Wave Form NEMA = TIF:</b>	50
<b>Wave Form IEC = THF:</b>	2.0%
<b>Total Harmonic content LL/LN:</b>	4.0%
<b>Radio Interference:</b>	Suppression is in line with European Standard EN61000-6
<b>Radiant Heat:</b> kW (Btu/min)	
- 50 Hz	13.2 (751)
- 60 Hz	-

Reactances shown are applicable to prime ratings.  
 \*Based on 30% voltage dip at 0.6 power factor and SHUNT excitation.  
 \*\*With optional permanent magnet generator or AREP excitation.

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### 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](http://FGWilson.com).

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