

Image for illustration purposes only.

P200-6L

Output Ratings

Voltage, Frequency	Prime	Standby
400/230V, 50 Hz	180.0 kVA / 144.0 kW	200.0 kVA / 160.0 kW
	- / -	- / -

Ratings at 0.8 power factor.

Please refer to the output ratings technical data section for specific generator set outputs per voltage.

Prime Rating

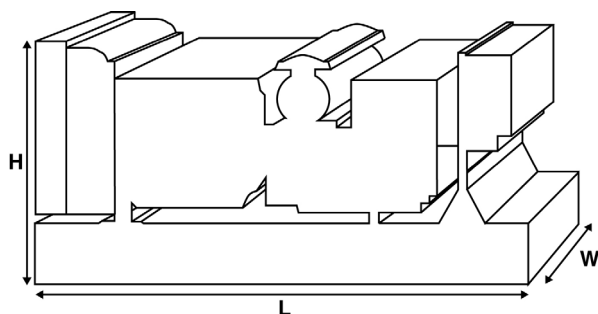
These ratings are applicable for supplying continuous electrical power (at variable load) in lieu of commercially purchased power. There is no limitation to the annual hours of operation and this model can supply 10% overload power for 1 hour in 12 hours.

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 1106D-E70TAG4

Alternator manufactured for FG Wilson by: Leroy Somer

Alternator Model: LL5114D

Control Panel: PowerWizard 1.1

Base Frame: Heavy Duty Fabricated Steel

Circuit Breaker Type: 3 Pole MCCB

Frequency: 50 Hz 60 Hz

Engine Speed: rpm 1500 -

Fuel Tank Capacity: 394 (104.1)
 litres (US gal)

Fuel Consumption: l/hr (US gal/hr)

(100% Load)	- Prime	41.9 (11.1)	-
	- Standby	45.9 (12.1)	-

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)
2510 (98.8)	1010 (39.8)	1640 (64.6)	1576 (3474)	1603 (3534)
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.
 include optional accessories.

Head Office

St Ivel Way, Warmley, Bristol BS30 8TY
 T. 0370 850 0858 F. 0370 850 0851

www.powerelectrics.com
sales@powerelectrics.com



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:		Electronic
Governing Class:		ISO 8528 G2
Compression Ratio:		16.8:1
Displacement: l (cu. in)		7.0 (427.8)
Moment of Inertia: kg m² (lb/in²)		1.53 (5228)
Engine Electrical System:		
- Voltage / Ground		12/Negative
- Battery Charger Amps		65
Weight: kg (lb)	- Dry	788 (1737)
	- Wet	822 (1812)

Performance	50 Hz	60 Hz
Engine Speed: rpm	1500	-
Gross Engine Power: kW (hp)		
- Prime	171.5 (230.0)	-
- Standby	188.7 (253.0)	-
BMEP: kPa (psi)		
- Prime	1956.0 (283.7)	-
- Standby	2153.0 (312.2)	-

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	45.9 (12.1)	41.9 (11.1)	32.9 (8.7)	23.9 (6.3)
60 Hz	-	-	-	-
		100%	75%	50%
Standby		Load	Load	Load
50 Hz		45.9 (12.1)	35.9 (9.5)	25.9 (6.8)
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	12.8 (452)	-
- Standby	13.2 (466)	-
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)	27.0 (7.1)	-
Water Pump Type: Centrifugal		
Heat Rejected to Water & Lube Oil:		
kW (Btu/min)	- Prime 72.7 (4134)	-
	- Standby 80.8 (4595)	-
Heat Radiation to Room: Heat radiated from engine and alternator		
kW (Btu/min)	- Prime 41.3 (2349)	-
	- Standby 45.4 (2582)	-
Radiator Fan Load: kW (hp)	6.3 (8.5)	-
Radiator Cooling Airflow: m ³ /min (cfm)	328.0 (11583)	-
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	
Oil Filter Type:	Spin-On, Full Flow
Total Oil Capacity: l (US gal)	17.5 (4.6)
Oil Pan: l (US gal)	15.5 (4.1)
Oil Type:	API CH4 / CI4 15W-40
Oil Cooling Method:	Water

Exhaust System	50 Hz	60 Hz
Maximum Allowable Back Pressure: kPa (in Hg)	15.0 (4.4)	-
Exhaust Gas Flow: m ³ /min (cfm)		
- Prime	30.2 (1067)	-
- Standby	31.7 (1119)	-
Exhaust Gas Temperature: °C (°F)		
- Prime	530 (986)	-
- Standby	530 (986)	-

Alternator Physical Data	
Manufactured for FG Wilson by:	Leroy Somer
Model:	LL5114D
No. of Bearings:	1
Insulation Class:	H
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 Regulation: (Steady state)	+/- 0.5%
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 EN61000-6
Radiant Heat: kW (Btu/min)	
- 50 Hz	15.6 (887)
- 60 Hz	-

Alternator Performance Data:		50 Hz			60 Hz	
Data Item		415/240V	400/230V	380/220V		
Motor Starting Capability* kVA		428	402	369		
Short Circuit Capacity** %		300	300	300		
Reactances: Per Unit						
	Xd	3.827	4.119	4.564		
	X'd	0.292	0.315	0.349		
	X''d	0.146	0.157	0.174		

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.

Output Ratings Technical Data 50 Hz				
Voltage	Prime:		Standby:	
	kVA	kW	kVA	kW
415/240V	180.0	144.0	200.0	160.0
400/230V	180.0	144.0	200.0	160.0
380/220V	180.0	144.0	200.0	160.0

Output Ratings Technical Data 60 Hz				
Voltage	Prime:		Standby:	
	kVA	kW	kVA	kW

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 IIIA emissions compliant.



Head Office

St Ivel Way, Warmley, Bristol BS30 8TY
T. 0370 850 0858 F. 0370 850 0851

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www.powerelectrics.com
sales@powerelectrics.com



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