PROUDLY 100% AUSTRALIAN OWNED





P200-3

Output Ratings

Voltage, Frequency	Prime	Standby
400V, 50 Hz	180.0 kVA / 144.0 kW	200.0 kVA / 160.0 kW
480V, 60 Hz	200.0 kVA / 160.0 kW	218.8 kVA / 175.0 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.

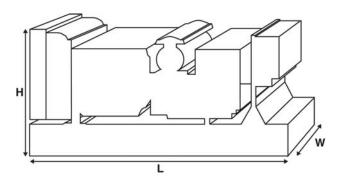




Image for illustration purposes only.

Ratings and Performance Do	ita		
Engine Make & Model:		Perkins 1106A-7	OTAG3
Alternator manufactured for FG Wilson by:		Marelli	
Alternator Model:		MJB 250 MB4	
Control Panel:		DCP-10	
Base Frame:		Heavy Duty Fabr	icated Steel
Circuit Breaker Type:		3 Pole MCCB	
Frequency:		50 Hz	60 Hz
Engine Speed: rpm		1500	1800
Fuel Tank Capacity: litres (US gal)		394 (104.1)	
Fuel Consumption: I/hr (US gal/	hr)		
(100% Load)	- Prime	39.8 (10.5)	46.5 (12.3)
	- Standby	43.2 (11.4)	50.6 (13.4)

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 ar	nd 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)	1552 (3422)	1579 (3481)
Dry = With Lube Oil		Wet = With Lube	e 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 Date	ı	
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 Charge Cooled		Turbocharged Air To Air Charge Cooled
Cooling Method:		Water
Governing Type: N		Mechanical
Governing Class:		ISO 8528 G2
Compression Ratio:		16.0:1
Displacement: I (cu. in)		7.0 (427.8)
Moment of Inertia: kg m ² (Ib/in ²)		1.26 (4306)
Engine Electrical Syste	m:	
- Voltage	/ Ground	12/Negative
- Battery Charger Amps		85
Weight: kg (Ib)	- Dry	788 (1737)
	- Wet	822 (1812)

Performance		50 Hz	60 Hz
Engine Speed: rpm	I	1500	1800
Gross Engine Pow	rer: kW (hp)		
	- Prime	167.6 (225.0)	180.5 (242.0)
	- Standby	185.5 (249.0)	199.7 (268.0)
BMEP: kPa (psi)			
	- Prime	1912.0 (277.3)	1715.0 (248.8)
	- Standby	2116.0 (306.9)	1898.0 (275.3)

F	Fuel System				
F	uel Filter T	Type: Replaceable Element			
R	ecommeno	led Fuel:	С	lass A2 Diesel c	or BSEN590
F	uel Consur	nption: I/hr (US g	al/hr)		
		110%	100%	75%	50%
	Prime	Load	Load	Load	Load
	50 Hz	43.2 (11.4)	39.8 (10.5)	30.7 (8.1)	19.6 (5.2)
	60 Hz	50.6 (13.4)	46.5 (12.3)	35.4 (9.4)	23.6 (6.2)
			100%	75%	50%
	Standby		Load	Load	Load
	50 Hz		43.2 (11.4)	33.9 (9.0)	22.2 (5.9)

(Based on diesel fuel with a specific gravity of 0.85 and conforming to BS2869, Class A2) $\,$

50.6 (13.4)

38.6 (10.2)

26.0 (6.9)

60 Hz

Air Systems	50 Hz	60 Hz
Air Filter Type:	Paper E	lement
Combustion Air Flow: m ³ /min (cfm)		
- Prime	13.1 (463)	15.5 (546)
- Standby	13.9 (490)	16.4 (578)
Max. Combustion Air Intake Restriction: kPa (in H ₂ O)	3.0 (12.0)	3.0 (12.0)

Cooling System	50 Hz	60 Hz	
Cooling System Capacity: I (US gal)	27.0 (7.1)	27.0 (7.1)	
Water Pump Type:	Cent	Centrifugal	
Heat Rejected to Water & Lube Oil:			
kW (Btu/min) - Prim	e 74.2 (4220)	81.5 (4635)	
- Standb	y 76.4 (4345)	88.3 (5022)	
Heat Radiation to Room: Heat radiated from engine and alternator			
kW (Btu/min) - Prim	e 22.2 (1262)	30.3 (1723)	
- Standb	y 24.6 (1399)	34.1 (1939)	
Radiator Fan Load: kW (hp)	5.0 (6.7)	10.0 (13.4)	
Radiator Cooling Airflow: m ³ /min (cfm)	307.2 (10849)	378.0 (13349)	
External Restriction to Cooling Airflow: Pa (in H ₂ O)	125 (0.5)	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: I (US gal)	16.5 (4.4)
Oil Pan: I (US gal)	14.9 (3.9)
Oil Type:	API CH4 / CI4 15W-40
Oil Cooling Method:	Water

Exhaust System	50 Hz	60 Hz
Maximum Allowable Back Pressure: ^{kPa} (in Hg)	6.0 (1.8)	6.0 (1.8)
Exhaust Gas Flow: m ³ /min (cfm)		
- Prime	31.6 (1114)	35.4 (1251)
- Standby	33.9 (1195)	38.4 (1354)
Exhaust Gas Temperature: °C (°F)		
- Prime	538 (1000)	485 (905)
- Standby	538 (1000)	485 (905)

Alternator Physical Data	
Manufactured for FG Wilson by:	Leroy Somer
Model:	MJB 250 MB4
No. of Bearings:	1
Insulation Class:	Н
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)	+/- 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	12.2 (694)
- 60 Hz	14.6 (830)

Alternator Performance Data:	50 Hz				60 Hz			
Data Item	415/240V	400/230V	380/220V	220/127V	480/277V	380/220V	240/120V	440/254V
		230/115V	220/110V		240/139V	220/110V	208/120V	220/127V
		200/115V						
Motor Starting	260	241	217	291	237	170	194	212
Capability* kVA	200	241	217	271	237	170	174	212
Short Circuit								
Capacity %	-	-	-	-	-	-	-	-
Reactances: Per Unit								
Xd	3.040	3.270	3.620	2.700	3.020	4.716	4.034	3.617
X'd	0.260	0.280	0.310	0.230	0.259	0.402	0.343	0.308
X"d	0.104	0.112	0.124	0.092	0.104	0.161	0.138	0.123

Reactances shown are applicable to prime ratings. *Based on 30% voltage dip at 0.6 power factor.

Output Rating		Output Rati			
Voltage	Pri	me:	Stan	dby:	Voltage
	kVA	kW	kVA	kW	
415/240V	180.0	144.0	200.0	160.0	480/277V
400/230V	180.0	144.0	200.0	160.0	220/127V
380/220V	180.0	144.0	200.0	160.0	380/220V
230/115V	180.0	144.0	200.0	160.0	240/120V
220/127V	180.0	144.0	200.0	160.0	
220/110V	180.0	144.0	200.0	160.0	440/254V
200/115V	180.0	144.0	200.0	160.0	220/110V
					208/120V
					240/139V

Output Ratings Technical Data 60 Hz						
Voltage	Priı	me:	Standby:			
	kVA	kW	kVA	kW		
480/277V	200.0	160.0	218.8	175.0		
220/127V	200.0	160.0	218.8	175.0		
380/220V	195.0	156.0	215.0	172.0		
240/120V	199.5	159.6	218.8	175.0		
440/254V	200.0	160.0	218.8	175.0		
220/110V	195.0	156.0	215.0	172.0		
208/120V	199.5	159.6	218.8	175.0		
240/139V	200.0	160.0	218.8	175.0		

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.

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.



Contact Information: VIC: 136 Fairbank Road NSW: 1 St James Place QLI Clayton South, Vic 3169 Seven Hills, NSW 2147 Bre

QLD: 31 South Pine Road Brendale, Qld 4500

Tel.: 1300 MAC GEN (622 436) Email: info@macgen.com

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.

In line with our policy of continuous product development, we reserve the right to change specification without notice.