PROUDLY 100% AUSTRALIAN OWNED





P50-4

Output Ratings			
Voltage, Frequency	Prime	Standby	
400V, 50 Hz	45.0 kVA / 36.0 kW	50.0 kVA / 40.0 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.

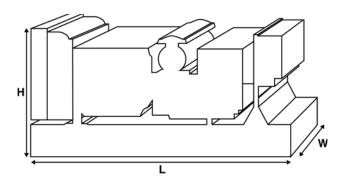




Image for illustration purposes only.

Ratings and Performance Data			
Engine Make & Model:		Perkins® 11030	C-33TG2/3
Alternator manufactured for FG Wilson by:		Marelli	
Alternator Model:		MJB 200 SB4	
Control Panel:		DCP-10	
Base Frame:		Heavy Duty Fabr	icated Steel
Circuit Breaker Type:		3 Pole MCB	
Frequency:		50 Hz	60 Hz
Engine Speed: RPM		1500	-
Fuel Tank Capacity: litres (US gal)		145 (3	38.3)
Fuel Consumption: I/hr (US gal/h	nr)		
(100% Load)	- Prime	10.6 (2.8)	-
	- Standby	11.8 (3.1)	-

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)
1680 (66.1)	760 (29.9)	1336 (52.6)	789 (1739)	802 (1768)
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 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:	18.23:1		
Displacement: (cu. in)	3.3 (201.4)		
Moment of Inertia: kg m ² (Ib/in ²)	1.14 (3896)		
Engine Electrical System:			
- Voltage / Ground	12/Negative		
- Battery Charger Amps	65		
Weight: kg (lb) - Dry	341 (752)		
- Wet	348 (767)		

Air Systems	50 Hz	60 Hz
Air Filter Type:	Replaceable	e Element
Combustion Air Flow: m ³ /min (cfm)		
- Prime	2.9 (102)	-
- Standby	3.1 (109)	-
Max. Combustion Air Intake Restriction: kPa (in H ₂ O)	5.0 (20.1)	-

Cooling System		50 Hz	60 Hz
Cooling System Capacity: I (U	S gal)	10.2 (2.7)	-
Water Pump Type:		Centrifu	ugal
Heat Rejected to Water & Lu	be Oil:		
kW (Btu/min)	- Prime	26.4 (1501)	-
	- Standby	29.0 (1649)	-
Heat Radiation to Room: Heat radiated from engine and alternator			
kW (Btu/min)	- Prime	12.2 (694)	
	- Standby	13.9 (790)	
Radiator Fan Load: kW (hp)		1.0 (1.3)	-
Radiator Cooling Airflow: m³/	min (cfm)	62.4 (2204)	-
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: 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
Maximum Allowable Back Pressure: ^{kPa} (in Hg)	12.0 (3.5)	-
Exhaust Gas Flow: m ³ /min (cfm)		
- Prime	7.0 (247)	-
- Standby	7.7 (272)	-
Exhaust Gas Temperature: °C (°F)		
- Prime	610 (1130)	-
- Standby	660 (1220)	-

Performance		50 Hz	60 Hz			
Engine Speed: rpm		1500	-			
Gross Engine Pow	Gross Engine Power: kW (hp)					
	- Prime	41.9 (56.0)	-			
	- Standby	46.5 (62.0)	-			
BMEP: kPa (psi)						
	- Prime	1016.0 (147.4)	-			
	- Standby	1127.0 (163.5)	-			

Fuel System					
F	uel Filter Ty	уре:	F	Replaceable Eler	nent
R	ecommend	ed Fuel:	C	Class A2 Diesel or BSEN590	
F	uel Consum	nption: I/hr (US g	al/hr)		
		110%	100%	75%	50%
	Prime	Load	Load	Load	Load
	50 Hz	11.8 (3.1)	10.6 (2.8)	8.0 (2.1)	5.7 (1.5)
	60 Hz	-	-	-	-
			100%	75%	50%
	Standby		Load	Load	Load
	50 Hz		11.8 (3.1)	8.8 (2.3)	6.2 (1.6)

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

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60 Hz

Alternator Physical Data			
Manufactured for FG Wilson by:	Marelli		
Model:	MJB 200 SB4		
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)	+/- 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	5.4 (307)			
- 60 Hz	-			

Alternator Performance Data:		50	Hz	60 Hz
Data Item	415/240V	400/230V	380/220V	
Motor Starting Capability* kVA	50	50	50	
Short Circuit Capacity %	-	-	-	
Reactances: Per Unit				
Xd	3.170	3.410	3.780	
X'd	0.290	0.310	0.340	
X"d	0.122	0.131	0.145	

Reactances shown are applicable to prime ratings. *Based on 30% voltage dip at 0 power factor.

Output Ratings Technical Data 50 Hz					Output Ratings Technical Data 60 Hz					
Voltage	Prime:		Standby:		Voltage	Prime:		Standby:		
	kVA	kW	kVA	kW		kVA	kW	kVA		
415/240V	45.0	36.0	50.0	40.0						
400/230V	45.0	36.0	50.0	40.0						
380/220V	45.0	36.0	49.9	39.9						

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.



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

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.