PROUDLY 100% AUSTRALIAN OWNED





P250H-3

Output Ratings

Voltage, Frequency	Prime	Standby
400V, 50 Hz	230.0 kVA / 184.0 kW	250.0 kVA / 200.0 kW
480V, 60 Hz	240.0 kVA / 192.0 kW	265.0 kVA / 212.0 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.

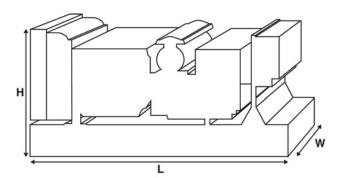




Image for illustration purposes only.

Ratings and Performance Data				
Engine Make & Model:		Perkins® 1306A-l	E87TAG4	
Alternator manufactured for FG Wilson by:		Marelli		
Alternator Model:		MJB 250LB4		
Control Panel:		PowerWizard 1.1	+	
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)		464 (122.6)		
Fuel Consumption: I/hr (US gal/h	r)			
(100% Load)	- Prime	49.6 (13.1)	54.6 (14.4)	
	- Standby	53.4 (14.1)	57.9 (15.3)	

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 an	ıd Weights			
Length (L) mm (in)	Width (W) mm (in)	Height (H) mm (in)	Dry kg (lb)	Wet kg (lb)
2662 (104.8)	1030 (40.6)	1760 (69.3)	1942 (4281)	1964 (4330)
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 / Alignm	ent:	6 / In Line
Cycle:		4 Stroke
Bore / Stroke: mm (in)		116.6 (4.6)/135.9 (5.4)
Induction:		Turbocharged Air To Air Charge Cooled
Cooling Method:		Water
Governing Type:		Electronic
Governing Class:		ISO 8528 G2
Compression Ratio:		16.9:1
Displacement: I (cu. in)		8.7 (530.9)
Moment of Inertia: kg m² (lb/in²)		1.54 (5266)
Engine Electrical System:		
- Voltage / G	iround	24/Negative
- Battery Charger	Amps	50
Weight: kg (lb)	- Dry	671 (1479)
	- Wet	698 (1539)

Performance		50 Hz	60 Hz
Engine Speed: rpt	n	1500	1800
Gross Engine Por	wer: kW (hp)		
	- Prime	209.0 (280.0)	233.0 (312.0)
	- Standby	228.0 (306.0)	255.0 (342.0)
BMEP: kPa (psi)			
	- Prime	1920.0 (278.5)	1784.0 (258.8)
	- Standby	2095.0 (303.8)	1953.0 (283.2)

F	uel System	1			
F	uel Filter T	уре:	/pe: Replaceable Element		
R	ecommen	ded Fuel:	C	lass A2 Diesel o	r BSEN590
F	uel Consu	mption: I/hr (US g	al/hr)		
		110%	100%	75%	50%
	Prime	Load	Load	Load	Load
	50 Hz	53.4 (14.1)	49.6 (13.1)	39.3 (10.4)	29.9 (7.9)
	60 Hz	57.9 (15.3)	54.6 (14.4)	45.6 (12.0)	35.2 (9.3)
			100%	75%	50%
	Standby		Load	Load	Load
	50 Hz		53.4 (14.1)	42.0 (11.1)	31.5 (8.3)

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

57.9 (15.3)

48.6 (12.8)

37.4 (9.9)

60 Hz

Air Systems	50 Hz	60 Hz
Air Filter Type:	Paper E	lement
Combustion Air Flow: m ³ /min (cfm)		
- Prime	16.2 (572)	19.8 (699)
- Standby	17.4 (614)	20.4 (720)
Max. Combustion Air Intake Restriction: kPa (in H ₂ O)	6.2 (25.0)	6.2 (25.0)

Cooling System	50 Hz	60 Hz	
Cooling System Capacity: I (US gal)	24.7 (6.5)	24.7 (6.5)	
Water Pump Type:	Cent	trifugal	
Heat Rejected to Water & Lube Oil:			
kW (Btu/min) - Prim	e 95.0 (5403)	103.0 (5858)	
- Standb	y 98.0 (5573)	106.0 (6028)	
Heat Radiation to Room: Heat radiated from engine and alternator			
kW (Btu/min) - Prim	e 20.7 (1177)	21.0 (1194)	
- Standb	y 23.1 (1314)	24.0 (1365)	
Radiator Fan Load: kW (hp)	9.9 (13.3)	16.9 (22.7)	
Radiator Cooling Airflow: m ³ /min (cfm)	349.8 (12353)	435.6 (15383)	
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)	26.5 (7.0)
Oil Pan: I (US gal)	22.7 (6.0)
Oil Type:	API CI-4
Oil Cooling Method:	Water

Exhaust System	50 Hz	60 Hz
Maximum Allowable Back Pressure: ^{kPa} (in Hg)	10.7 (3.2)	10.7 (3.2)
Exhaust Gas Flow: m ³ /min (cfm)		
- Prime	36.6 (1293)	46.5 (1642)
- Standby	40.3 (1423)	51.3 (1812)
Exhaust Gas Temperature: °C (°F)		
- Prime	530 (986)	477 (891)
- Standby	576 (1069)	527 (981)

Alternator Physical Data	
Manufactured for FG Wilson by:	Marelli
Model:	MJB 250LB4
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 EN55011		
Radiant Heat: kW (Btu/min)			
- 50 Hz	14.1 (802)		
- 60 Hz	14.0 (796)		

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	432	376	348	516	372	280	324	344
Capability* kVA	432	370	348	510	372	280	324	344
Short Circuit								
Capacity** %	300	300	300	300	300	300	300	300
Reactances: Per Unit								
Xd	2.598	2.797	3.099	2.211	2.432	2.918	3.238	2.894
X'd	0.215	0.231	0.256	0.183	0.201	0.320	0.267	0.239
X"d	0.082	0.088	0.098	0.070	0.077	0.123	0.102	0.091

Reactances shown are applicable to prime ratings. *Based on 30% voltage dip at 0.0 power factor and SHUNT excitation. **With optional permanent magnet generator or AREP excitation.

Voltage	Prime:		Standby:		Voltage	Prime:		Standby:	
	kVA	kW	kVA	kW		kVA	kW	kVA	k'
415/240V	230.0	184.0	250.0	200.0	480/277V	240.0	192.0	265.0	21
400/230V	230.0	184.0	250.0	200.0	220/127V	240.0	192.0	265.0	212
380/220V	230.0	184.0	250.0	200.0	380/220V	240.0	192.0	265.0	212
230/115V	230.0	184.0	250.0	200.0	240/120V	240.0	192.0	265.0	212
220/127V	220.0	176.0	240.0	192.0					
220/110V	230.0	184.0	250.0	200.0	440/254V	240.0	192.0	265.0	212
200/115V	230.0	184.0	250.0	200.0	220/110V	240.0	192.0	265.0	212
					208/120V	240.0	192.0	265.0	212
					240/139V	240.0	192.0	265.0	212

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 C Clayton South, Vic 3169 Seven Hills, NSW 2147 B

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.