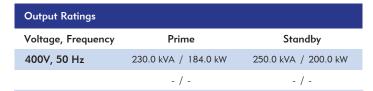


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P250-3



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.

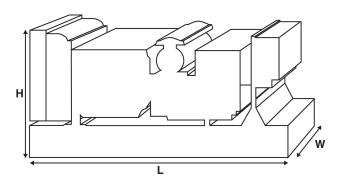




Image for illustration purposes only.

Ratings and Performance Data			
Engine Make & Model:		Perkins® 1506A	-E88TAG2
Alternator manufactured for FG Wilson by:		Marelli	
Alternator Model:		MJB250LB4	
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	-
Fuel Tank Capacity: litres (US gal)		464 (1	22.6)
Fuel Consumption: I/hr (US gal/hr)			
(100% Load)	Prime	47.8 (12.6)	-
- St	tandby	51.7 (13.7)	-

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)
2662 (104.8)	1030 (40.6)	1754 (69.1)	2051 (4522)	2084 (4594)
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:	6 / In Line
Cycle:	4 Stroke
Bore / Stroke: mm (in)	112.0 (4.4)/149.0 (5.9)
Induction:	Turbocharged Air To Air Charge Cooled
Cooling Method:	Water
Governing Type:	Electronic
Governing Class:	ISO 8528 G2
Compression Ratio:	16.1:1
Displacement: I (cu. in)	8.8 (537.0)
Moment of Inertia: kg m² (lb/in²)	2.40 (8212)
Engine Electrical System:	
- Voltage / Groun	nd 24/Negative
- Battery Charger Am	ps 45
Weight: kg (lb)	778 (1715)
- W	/et 800 (1764)

Performance	50 Hz	60 Hz
Engine Speed: rpm	1500	-
Gross Engine Power: kW (hp)		
- Prin	ne 213.0 (286.0)	-
- Stand	by 236.0 (316.0)	-
BMEP: kPa (psi)		
- Prin	ne 1935.0 (280.6)	-
- Stand	by 2144.0 (310.9)	-

Fuel System	
Fuel Filter Type:	Replaceable Element

Recommended Fuel: Class A2 Diesel or BSEN590

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

	110%	100%	75%	50%
Prime	Load	Load	Load	Load
50 Hz	51.7 (13.7)	47.8 (12.6)	37.1 (9.8)	27.1 (7.2)
60 Hz	-	-	-	-

	100%	75%	50%
Standby	Load	Load	Load
50 Hz	51.7 (13.7)	39.8 (10.5)	28.8 (7.6)
60 Hz	-	-	-

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

50 Hz	60 Hz
Paper E	lement
14.4 (509)	-
15.0 (530)	-
6.2 (24.9)	-
	Paper E 14.4 (509) 15.0 (530)

Cooling System		50 Hz	60 Hz
Cooling System Capacity: 1 (U	S gal)	33.0 (8.7)	-
Water Pump Type:		Centrit	fugal
Heat Rejected to Water & Lu	be Oil:		
kW (Btu/min)	- Prime	93.0 (5289)	-
	- Standby	99.0 (5630)	-
Heat Radiation to Room: Heat radiated from engine and alternator			
kW (Btu/min)	- Prime	25.3 (1439)	
	- Standby	26.8 (1524)	
Radiator Fan Load: kW (hp)		7.7 (10.3)	-
Radiator Cooling Airflow: m ³ /r	min (cfm) 4	09.5 (14461)	-
External Restriction to Cooling Airflow: Pa (in H ₂ O)		125 (0.5)	-

Lubrication System	
Oil Filter Type:	Spin-On, Full Flow
Total Oil Capacity: I (US gal)	39.0 (10.3)
Oil Pan: I (US gal)	36.0 (9.5)
Oil Type:	API CI-4 0W-30
Oil Cooling Method:	Water

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.

Exhaust System	50 Hz	60 Hz
Maximum Allowable Back Pressure: kPa (in Hg)	10.0 (3.0)	-
Exhaust Gas Flow: m³/min (cfm)		
- Prime	34.4 (1215)	-
- Standby	35.7 (1261)	-
Exhaust Gas Temperature: °C (°F)		
- Prime	467 (873)	-
- Standby	475 (887)	-

Alternator Physical Data	
Manufactured for FG Wilson by:	Marelli
Model:	MJB250LB4
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	12.8 (728)				
- 60 Hz	-				

Alternator Performance Data:		50	Hz		60 Hz
Data Item	415/240V	400/230V	380/220V		
		230/115V			
		230 V			
Motor Starting	100	a= .			
Capability* kVA	403	374	337		
Short Circuit					
Capacity** %	300	300	300		
Reactances: Per Unit					
Xd	2.594	2.797	3.095		
X'd	0.214	0.231	0.256		
X"d	0.082	0.088	0.098		

Reactances shown are applicable to prime ratings.
*Based on 30% voltage dip at 0.0 power factor and SHUNT excitation.

**With optional p	permanent	magnet	generator	or AREP	excitation.

Output Ratings Technical Data 50 Hz					
Voltage	Priı	ne:	Standby:		
	kVA	kW	kVA	kW	
415/240V	230.0	184.0	250.0	200.0	
400/230V	230.0	184.0	250.0	200.0	
380/220V	230.0	184.0	250.0	200.0	
230/115V	230.0	184.0	250.0	200.0	
230 V	230.0	184.0	250.0	200.0	

Output Ratings Technical Data 60 Hz					
Voltage	Pr	ime:	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. 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. Dealer contact details:

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.

General Information