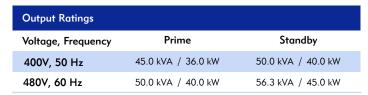


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P50-3



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.

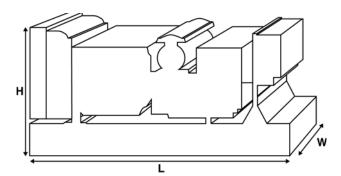




Image for illustration purposes only.

Ratings and Performance Da	ta		
Engine Make & Model:		Perkins®1103A	-33TG1
Alternator manufactured for FG Wilson by:		Marelli	
Alternator Model:		MJB 200 SB4	
Control Panel:		DCP-10	
Base Frame:		Heavy Duty Fabi	ricated Steel
Circuit Breaker Type:		3 Pole MCB / 3 Pole MCCB	
Frequency:		50 Hz	60 Hz
Engine Speed: RPM		1500	1800
Fuel Tank Capacity: litres (US gal)		145 (38.3)	
Fuel Consumption: I/hr (US gal/h	nr)		
(100% Load)	- Prime	10.5 (2.8)	11.9 (3.1)
	- Standby	11.7 (3.1)	13.4 (3.5)

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	nd 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)	797 (1757)	810 (1786)
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:	17.25:1
Displacement: I (cu. in)	3.3 (201.4)
Moment of Inertia: kg m² (lb/in²)	1.14 (3896)
Engine Electrical System:	
- Voltage / Grou	nd 12/Negative
- Battery Charger Am	ps 65
Weight: kg (lb) - [Ory 420 (926)
- W	Vet 438 (966)

Performance		50 Hz	60 Hz
Engine Speed: rpm		1500	1800
Gross Engine Pow	er: kW (hp)		
	- Prime	42.2 (57.0)	50.5 (68.0)
	- Standby	46.5 (62.0)	55.6 (75.0)
BMEP: kPa (psi)			
	- Prime	1023.0 (148.4)	1020.0 (148.0)
	- Standby	1127.0 (163.5)	1124.0 (163.0)

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	11.7 (3.1)	10.5 (2.8)	7.8 (2.1)	5.6 (1.5)
60 Hz	13.4 (3.5)	11.9 (3.1)	9.1 (2.4)	6.7 (1.8)

	100%	75%	50%
Standby	Load	Load	Load
50 Hz	11.7 (3.1)	8.7 (2.3)	6.0 (1.6)
60 Hz	13.4 (3.5)	10.1 (2.7)	7.2 (1.9)

(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:	Replaceab	Replaceable Element	
Combustion Air Flow: m ³ /min (cfm)			
- Prime	2.9 (102)	3.7 (131)	
- Standby	3.1 (109)	3.9 (138)	
Max. Combustion Air Intake Restriction: kPa (in H_2O)	8.0 (32.1)	8.0 (32.1)	

Cooling System		50 Hz	60 Hz
Cooling System Capacity: I (US gal)		10.2 (2.7)	10.2 (2.7)
Water Pump Type:		Centrifugal	
Heat Rejected to Water & Lube Oil:			
kW (Btu/min) - P	rime	26.1 (1484)	31.0 (1763)
- Star	ndby	30.0 (1706)	34.0 (1934)
Heat Radiation to Room: Heat radiated from engine and alternator			
kW (Btu/min) - P	rime	11.5 (654)	13.4 (762)
- Star	ndby	13.4 (762)	15.3 (870)
Radiator Fan Load: kW (hp)		0.5 (0.7)	0.9 (1.2)
Radiator Cooling Airflow: m³/min (cfm))	86.4 (3051)	105.6 (3729)
External Restriction to Cooling Airflow: Pa (in H ₂ O)		120 (0.5)	120 (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

50 Hz	60 Hz	
10.0 (3.0)	15.0 (4.4)	
7.0 (247)	8.8 (311)	
7.7 (272)	9.5 (335)	
Exhaust Gas Temperature: °C (°F)		
492 (918)	510 (950)	
537 (999)	551 (1024)	
	7.0 (247) 7.7 (272) 492 (918)	

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	6.3 (358)				

Alternator Performance Data:		50	Hz				60 Hz	
Data Item	415/240V	400/230V 230/115V 200/115V	380/220V 220/110V	220/127V	480/277V 240/139V	380/220V 220/110V	240/120V 208/120V	440/254V 220/127V
Motor Starting Capability* kVA	50	50	50	60	50	40	40	40
Short Circuit Capacity %	-	-	-	-	-	-	-	-
Reactances: Per Unit								
Xd	3.170	3.410	3.780	2.820	3.160	3.790	4.200	3.750
X'd	0.290	0.310	0.340	0.250	0.290	0.430	0.380	0.340
X"d	0.122	0.131	0.145	0.108	0.121	0.183	0.161	0.144

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

Output Ratings Technical Data 50 Hz					
Voltage	Pri	me:	Standby:		
	kVA	kW	kVA	kW	
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	50.0	40.0	
230/115V	45.0	36.0	50.0	40.0	
220/127V	45.0	36.0	50.0	40.0	
220/110V	45.0	36.0	50.0	40.0	
200/115V	45.0	36.0	50.0	40.0	

Output Ratings Technical Data 60 Hz					
Voltage	Pri	me:	Standby:		
	kVA	kW	kVA	kW	
480/277V	50.0	40.0	56.3	45.0	
220/127V	50.0	40.0	56.3	45.0	
380/220V	47.5	38.0	52.3	41.8	
240/120V	50.0	40.0	56.3	45.0	
440/254V	50.0	40.0	56.3	45.0	
220/110V	47.5	38.0	52.3	41.8	
208/120V	50.0	40.0	56.3	45.0	
240/139V	50.0	40.0	56.3	45.0	

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. 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