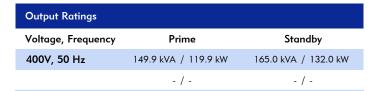


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P165-4



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.

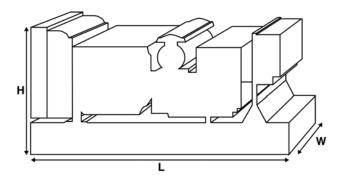




Image for illustration purposes only.

Ratings and Performance Data				
Engine Make & Model:		Perkins® 1106C-l	E66TAG3	
Alternator manufactured for FG Wilson by:		Marelli		
Alternator Model:		MJB 250 MA4		
Control Panel:		DCP-10		
Base Frame:		Heavy Duty Fabri	cated Steel	
Circuit Breaker Type:		3 Pole MCCB		
Frequency:		50 Hz	60 Hz	
Engine Speed: RPM		1500	-	
Fuel Tank Capacity: litres (US gal)		327 (86.4)		
Fuel Consumption: I/hr (US gal/hr))			
(100% Load)	- Prime	33.1 (8.7)	-	
	- Standby	35.6 (9.4)	-	

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 and Weights				
Length (L) mm (in)	Width (W) mm (in)	Height (H) mm (in)	Dry kg (lb)	Wet kg (lb)
2450 (96.5)	1010 (39.8)	1554 (61.2)	1654 (3646)	1675 (3693)
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 / Alignment	: 6 / In Line
Cycle:	4 Stroke
Bore / Stroke: mm (in)	105.0 (4.1)/127.0 (5.0)
Induction:	Turbocharged Air To Air Charge Cooled
Cooling Method:	Water
Governing Type:	Electronic
Governing Class:	ISO 8528 G2
Compression Ratio:	16.2:1
Displacement: I (cu. in)	6.6 (402.8)
Moment of Inertia: kg m² (lb/in²	1.61 (5502)
Engine Electrical System:	
- Voltage / Grou	und 12/Negative
- Battery Charger An	nps 100
Weight: kg (lb)	Dry 788 (1737)
- \	Wet 822 (1812)

Performance	50 Hz	60 Hz
Engine Speed: rpm	1500	-
Gross Engine Power: kW (hp)		
- Prir	me 133.8 (179.0)	-
- Stand	lby 148.4 (199.0)	-
BMEP: kPa (psi)		
- Prir	me 1622.0 (235.3)	-
- Stand	lby 1800.0 (261.0)	-

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	35.6 (9.4)	33.1 (8.7)	26.0 (6.9)	17.9 (4.7)
60 Hz	-	-	-	-

	100%	75%	50%
Standby	Load	Load	Load
50 Hz	35.6 (9.4)	28.3 (7.5)	19.6 (5.2)
60 Hz	-	-	-

(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:		Paper Element	
Combustion Air Flow: m ³ /min (cfm)			
	- Prime	9.4 (332)	-
	- Standby	9.6 (339)	-
Max. Combustion Air Intake Restriction: kPa (in H ₂ O)		8.0 (32.1)	-

Cooling System	50 Hz	60 Hz
Cooling System Capacity: I (US gal)	21.0 (5.5)	-
Water Pump Type:	Centri	ifugal
Heat Rejected to Water & Lube Oil:		
kW (Btu/min) - Prim	e 66.0 (3753)	-
- Standb	y 71.3 (4055)	-
Heat Radiation to Room: Heat radiated fro	m engine and alternator	
kW (Btu/min) - Prim	e 19.3 (1098)	
- Standb	y 21.2 (1206)	
Radiator Fan Load: kW (hp)	6.7 (9.0)	-
Radiator Cooling Airflow: m³/min (cfm)	241.2 (8518)	-
External Restriction to Cooling Airflow: Pa (in H ₂ O)	125 (0.5)	-

Lubrication System	
Oil Filter Type:	Spin-On, Full Flow
T-1-1 0:1 C:t	14 E (4 4)

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.

Total Oil Capacity: I (US gal)	16.5 (4.4)
Oil Pan: I (US gal)	15.5 (4.1)
Oil Type:	API CH4 / CI4 15W-40
Oil Cooling Method:	Water

Exhaust System	50 Hz	60 Hz
Maximum Allowable Back Pressure: kPa (in Hg)	10.0 (3.0)	-
Exhaust Gas Flow: m³/min (cfm)		
- Prime	24.4 (862)	-
- Standby	25.0 (883)	-
Exhaust Gas Temperature: °C (°F)		
- Prime	478 (892)	-
- Standby	482 (900)	-

Alternator Physical Data			
Manufactured for FG Wilson by:	Marelli		
Model:	MJB 250 MA4		
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	10.1 (574)
- 60 Hz	-

Alternator Performance Data:	50 Hz		60		
Data Item	415/240V	400/230V	380/220V		
Motor Starting Capability* kVA	232	218	194		
Short Circuit Capacity %	-	-	-		
Reactances: Per Unit					
Xd	2.750	2.960	3.270		
X'd	0.240	0.260	0.290		
X"d	0.101	0.109	0.120		

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

Output Ratings Technical Data 50 Hz						
Voltage	Prime:		Standby:			
	kVA	kW	kVA	kW		
415/240V	149.7	119.8	165.0	132.0		
400/230V	149.9	119.9	165.0	132.0		
380/220V	149.4	119.5	165.0	132.0		

Output Ratings Technical Data 60 Hz					
Voltage	Prime:		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. 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. 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