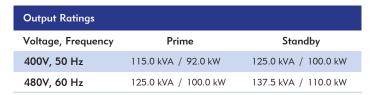


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F125-1



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.

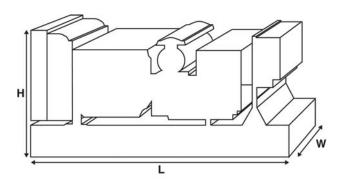




Image for illustration purposes only.

Ratings and Performance D	ata		
Engine Make & Model:		FG Wilson FD6-	6.5A1
Alternator manufactured for FG Wilson by:	r	Marelli	
Alternator Model:		MJB 225 LA4	
Control Panel:	I	DCP-10	
Base Frame:	I	Heavy Duty Fab	ricated Steel
Circuit Breaker Type:		3 Pole MCB	
Frequency:		50 Hz	60 Hz
Engine Speed: rpm		1500	1800
Fuel Tank Capacity: litres (US gal)		327 (86.4)
Fuel Consumption: I/hr (US gal,	/hr)		
(100% Load)	- Prime	23.4 (6.2)	22.0 (5.8)
	- Standby	26.2 (6.9)	26.0 (6.9)

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
- Additional alarms and shutdowns
- Industrial silencer

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)
2450 (96.5)	1010 (39.8)	1645 (64.8)	1469 (3239)	1490 (3285)
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 / I nLi re	
Cycle:	4 Stroke	
Bore / Stroke: mm (in)	105.0 (4.1)/125.0 (4.9)	
Induction:	Turbocharged Air To Air Charge Cooled	
Cooling Method:	Water	
Governing Type:	Electronic	
Governing Class:	ISO 8528 G2	
Compression Ratio:	17:1	
Displacement: I (cu. in)	6.5 (396.0)	
Moment of Inertia: kg m² (lb/in²)	-	
Engine Electrical System:		
- Voltage / Ground	24/Negative	
- Battery Charger Amps	27	
Weight: kg (lb) - Dry	665 (1466)	
- Wet	675 (1488)	

Performance		50 Hz	60 Hz
Engine Speed: rpm		1500	1800
Gross Engine Powe	er: kW (hp)		
	- Prime	107.0 (143.0)	120.0 (161.0)
	- Standby	115.0 (154.0)	128.0 (172.0)
BMEP: kPa (psi)			
	- Prime	1318.0 (191.2)	1232.0 (178.7)
	- Standby	1417.0 (205.5)	1314.0 (190.6)

Fuel System		

Fuel Filter Type: Spin On

Recommended Fuel: Class A2 Diesel or BSEN590

 $\pmb{Fuel\ Consumption:}\ \textit{I/hr}\ (\textit{US\ gal/hr})$

	110%	100%	75%	50%
Prime	Load	Load	Load	Load
50 Hz	26.2 (6.9)	23.4 (6.2)	17.6 (4.6)	12.1 (3.2)
60 Hz	26.0 (6.9)	22.0 (5.8)	16.9 (4.5)	18.9 (5.0)

	100%	75%	50%
Standby	Load	Load	Load
50 Hz	26.2 (6.9)	19.9 (5.3)	14.9 (3.9)
60 Hz	26.0 (6.9)	20.8 (5.5)	22.9 (6.1)

(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	le Element
Combustion Air Flow: m³/min ((cfm)		
	- Prime	-	-
	- Standby	9.0 (318)	9.4 (331)
Max. Combustion Air Intake Restriction: kPa (in H_2O)		5.0 (20.1)	5.0 (20.1)

Cooling System		50 Hz	60 Hz
Cooling System Capacity: I (US	gal)	26.0 (6.9)	26.0 (6.9)
Water Pump Type:		Cent	rifugal
Heat Rejected to Water & Lub	e Oil:		
kW (Btu/min)	- Prime	-	-
	- Standby	-	-
Heat Radiation to Room: Heat	Heat Radiation to Room: Heat radiated from engine and alternator		
kW (Btu/min)	- Prime	-	-
	- Standby	-	-
Radiator Fan Load: kW (hp)		4.0 (5.4)	5.0 (6.7)
Radiator Cooling Airflow: m³/m	in (cfm)	156.0 (5509)	252.0 (8899)
External Restriction to Cooling Airflow: Pa (in H ₂ O)		125 (0.5)	125 (0.5)

Lubrication System	
Oil Filter Type:	Spin-On, Full Flow
Total Oil Capacity: I (US gal)	16.0 (4.2)
Oil Pan: I (US gal)	-
Oil Type:	15W-40 CF4
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)	6.0 (1.8)	6.0 (1.8)
Exhaust Gas Flow: m³/min (cfm)		
- Prime	-	-
- Standby	21.4 (756)	23.4 (826)
Exhaust Gas Temperature: °C (°F)		
- Prime	-	-
- Standby	-	575 (1067)

Alternator Physical Data	
Manufactured for FG Wilson by:	Marelli
Model:	MJB 225 LA4
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	8.5 (483)				
- 60 Hz	9.6 (546)				

Alternator Performance Data:		50	Hz			60 Hz	
Data Item	415/240V	400/230V	380/220V	480/277V 240/139V	380/220V		440/254V 220/127V
Motor Starting Capability* kVA	277	257	232	308	193		259
Short Circuit Capacity %	-	-	-	-	-		-
Reactances: Per Unit							
Xd	2.137	2.300	2.548	2.081	2.393		2.476
X'd	0.156	0.168	0.186	0.152	0.243		0.181
X"d	0.077	0.083	0.092	0.075	0.120		0.089

Output Ratings Technical Data 50 Hz					
Voltage	Prime:		Standby:		
	kVA	kW	kVA	kW	
415/240V	115.0	92.0	125.0	100.0	
400/230V	115.0	92.0	125.0	100.0	
380/220V	115.0	92.0	125.0	100.0	

Output Ratings Technical Data 60 Hz					
Voltage	Priı	me:	Standby:		
	kVA	kW	kVA	kW	
480/277V	125.0	100.0	137.5	110.0	
220/127V	125.0	100.0	137.5	110.0	
380/220V	125.0	100.0	137.5	110.0	
440/254V	125.0	100.0	137.5	110.0	
240/139V	125.0	100.0	137.5	110.0	

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

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, limited to 2,000 running hours per year, has 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