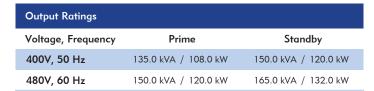


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P150-5



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.

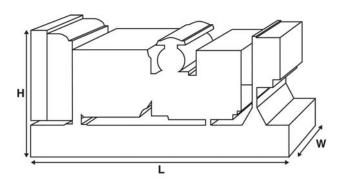




Image for illustration purposes only.

Ratings and Performance Da	ta		
Engine Make & Model:		Perkins 1106A-7	'0TG1
Alternator manufactured for FG Wilson by:		Marelli	
Alternator Model:		MJB 225 LA4	
Control Panel:		DCP-10	
Base Frame:		Heavy Duty Fabr	ricated Steel
Circuit Breaker Type:		3 Pole MCCB	
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/h	ır)		
(100% Load)	- Prime	29.9 (7.9)	33.1 (8.7)
	- Standby	33.4 (8.8)	36.7 (9.7)

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)
2450 (96.5)	1010 (39.8)	1544 (60.8)	1407 (3102)	1428 (3148)
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)	105.0 (4.1)/135.0 (5.3)
Induction:	Turbocharged
Cooling Method:	Water
Governing Type:	Mechanical
Governing Class:	ISO 8528 G2
Compression Ratio:	18.2:1
Displacement: I (cu. in)	7.0 (427.8)
Moment of Inertia: kg m² (lb/in²)	1.40 (4784)
Engine Electrical System:	
- Voltage / Ground	12/Negative
- Battery Charger Amps	65
Weight: kg (lb) - Dry	725 (1598)
- Wet	748 (1649)

Performance		50 Hz	60 Hz
Engine Speed: rpm		1500	1800
Gross Engine Pow	er: kW (hp)		
	- Prime	123.7 (166.0)	140.5 (188.0)
	- Standby	136.9 (184.0)	155.4 (208.0)
BMEP: kPa (psi)			
	- Prime	1411.0 (204.6)	1336.0 (193.7)
	- Standby	1562.0 (226.5)	1477.0 (214.2)

Fuel System	
Fuel Filter Type:	Replaceable Element

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	33.4 (8.8)	29.9 (7.9)	22.6 (6.0)	16.2 (4.3)
60 Hz	36.7 (9.7)	33.1 (8.7)	25.5 (6.7)	19.7 (5.2)

	100%	75%	50%
Standby	Load	Load	Load
50 Hz	33.4 (8.8)	24.9 (6.6)	17.6 (4.6)
60 Hz	36.7 (9.7)	27.5 (7.3)	20.7 (5.5)

(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: m³/min (cfm)		
- Prim	e 7.6 (270)	11.0 (387)
- Standb	y 8.1 (286)	11.5 (405)
Max. Combustion Air Intake Restriction: kPa (in H ₂ O)	5.0 (20.1)	5.0 (20.1)

Cooling System	50 Hz	60 Hz	
Cooling System Capacity: I (US gal)	21.0 (5.5)	21.0 (5.5)	
Water Pump Type:	Cent	Centrifugal	
Heat Rejected to Water & Lube Oil:			
kW (Btu/min) - Prim	e 74.9 (4259)	84.2 (4788)	
- Standb	y 82.0 (4663)	92.0 (5232)	
Heat Radiation to Room: Heat radiated from engine and alternator			
kW (Btu/min) - Prim	e 21.6 (1228)	24.1 (1371)	
- Standb	y 25.9 (1473)	27.0 (1535)	
Radiator Fan Load: kW (hp)	5.0 (6.7)	7.0 (9.4)	
Radiator Cooling Airflow: m³/min (cfm)	228.6 (8073)	234.0 (8264)	
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)	16.5 (4.4)
Oil Pan: I (US gal)	14.9 (3.9)
Oil Type:	API CH4 / CI4 15W-40
Oil Cooling Method:	Water

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	20.8 (732)	27.8 (982)	
- Standby	22.7 (800)	29.7 (1050)	
Exhaust Gas Temperature: °C (°F)			
- Prime	561 (1042)	526 (979)	
- Standby	561 (1042)	526 (979)	

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 Europea Standard EN61000-6					
Radiant Heat: kW (Btu/min)						
- 50 Hz	10.6 (603)					
- 60 Hz	12.1 (688)					

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 200/115V	220/110V		240/139V	220/110V	208/120V	220/127V
Motor Starting	201	260	233	207	204	105	231	262
Capability* kVA	281	200	233	307	306	195	231	202
Short Circuit	300	300	300	300	300	300	300	300
Capacity** %	300	300	300	300	300	300	300	300
Reactances: Per Unit								
Xd	2.508	2.700	2.881	2.231	2.750	2.683	3.328	3.273
X'd	0.183	0.197	0.210	0.163	0.201	0.272	0.243	0.239
X"d	0.090	0.097	0.103	0.080	0.099	0.134	0.120	0.118

Output Ratings Technical Data 50 Hz					
Voltage	Pri	ne:	Standby:		
	kVA	kW	kVA	kW	
415/240V	135.0	108.0	150.0	120.0	
400/230V	135.0	108.0	150.0	120.0	
380/220V	130.0	104.0	142.0	113.6	
230/115V	135.0	108.0	150.0	120.0	
220/127V	135.0	108.0	148.0	118.4	
220/110V	130.0	104.0	142.0	113.6	
200/115V	135.0	108.0	150.0	120.0	

Output Ratings Technical Data 60 Hz					
Voltage	Pri	me:	Standby:		
	kVA	kW	kVA	kW	
480/277V	150.0	120.0	165.0	132.0	
220/127V	150.0	120.0	165.0	132.0	
380/220V	140.0	112.0	153.0	122.4	
240/120V	150.0	120.0	165.0	132.0	
440/254V	150.0	120.0	165.0	132.0	
220/110V	140.0	112.0	153.0	122.4	
208/120V	150.0	120.0	165.0	132.0	
240/139V	150.0	120.0	165.0	132.0	

Reactances shown are applicable to prime ratings.
*Based on 30% voltage dip at 0 power factor and SHUNT excitation.
**With optional permanent magnet generator or AREP 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 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