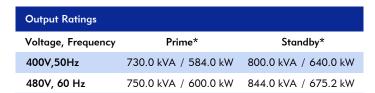


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P730P1/P800E1



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.

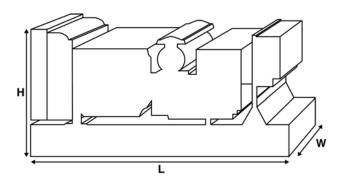




Image for illustration purposes only.

Ratings and Performance Data		
Engine Make & Model:	Perkins® 4006-2	23TAG2A
Alternator manufactured for FG Wilson by:	Leroy Somer	
Alternator Model:	LL7024L	
Control Panel:	PowerWizard 1.	1+
Base Frame:	Heavy Duty Fal	oricated Steel
Circuit Breaker Type:	3 Pole ACB/MC	СВ
Frequency:	50 Hz	60 Hz
Engine Speed: RPM	1500	1800
Fuel Tank Capacity: litres (US gal)	1494	(394.7)
Fuel Consumption: I/hr (US gal/hr)		
(100% Load) - Prim	e 149.8 (39.6)	167.0 (44.1)
- Standl	y 163.4 (43.2)	189.1 (50.0)

Available Options

FG Wilson offer a range of optional features to tailor our generating sets to meet your power needs. Options include:

- Upgrade to CE Certification
- A wide range of Sound Attenuated Enclosures
- A variety of generating 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	d Weights			
Length (L) mm (in)	Width (W) mm (in)	Height (H) mm (in)	Dry kg (lb)	Wet kg (lb)
4280 (168.5)	1912 (75.3)	2371 (93.3)	5975 (13173)	6081 (13406)
Dry = With Lube	Oil	Wet = With Lub	e Oil and Coolant	

Ratings in accordance with ISO 8528, ISO 3046, IEC 60034, BS5000 and NEMA MG-1/22. Generating set pictured may include optional accessories.

Engine Technical Data	
No. of Cylinders / Alignment:	6 / In Line
Cycle:	4 Stroke
Bore / Stroke: mm (in)	160.0 (6.3)/190.0 (7.5)
Induction:	Turbocharged Air To Air Charge Cooled
Cooling Method:	Water
Governing Type:	Electronic
Governing Class:	ISO 8528 G2
Compression Ratio:	13.6:1
Displacement: I (cu. in)	22.9 (1398.7)
Moment of Inertia: kg m² (lb/in²	10.61 (36256)
Engine Electrical System:	
- Voltage / Grou	and 24/Negative
- Battery Charger Am	nps 40
Weight: kg (lb)	Ory 2524 (5564)
- V	Vet 2663 (5871)

Performance		50 Hz	60 Hz
Engine Speed: rpm		1500	1800
Gross Engine Power:	kW (hp)		
	- Prime	646.0 (866.0)	684.0 (917.0)
	- Standby	711.0 (953.0)	759.0 (1018.0)
BMEP: kPa (psi)			
	- Prime	2255.0 (327.0)	1989.0 (288.5)
	- Standby	2481.0 (359.9)	2208.0 (320.2)

Fuel System	
•	

Fuel Filter Type:Replaceable ElementRecommended Fuel:Class A2 Diesel

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

	110%	100%	75%	50%
Prime	Load	Load	Load	Load
50 Hz	164.0 (43.3)	149.8 (39.6)	114.8 (30.3)	81.6 (21.6)
60 Hz	189.1 (50.0)	167.0 (44.1)	124.7 (32.9)	89.9 (23.7)

	110%	100%	75%	50%
Standby	Load	Load	Load	Load
50 Hz		163.4 (43.2)	124.7 (32.9)	87.9 (23.2)
60 Hz		189.1 (50.0)	139.9 (37.0)	97.8 (25.8)

(Based on diesel fuel with a specific gravity of 0.84 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	64.0 (2260)	65.0 (2295)
	- Standby	71.0 (2507)	72.0 (2543)
Max. Combustion Air Intate Restriction: kPa (in H ₂ O)		3.7 (14.9)	3.7 (14.9)

Cooling System	JU HZ	OU FIZ
Cooling System Capacity: I (US gal)	106.0 (28.0)	106.0 (28.0)
Water Pump Type:	Cent	rifugal
Heat Rejected to Water & Lube Oil:		
kW (Btu/min) - Prim	ne 229.0 (13023)	216.0 (12284)
- Standl	y 262.0 (14900)	252.0 (14331)
Heat Radiation to Room: Heat radiated from engine and alternator		
kW (Btu/min) - Prim	ne 98.0 (5573)	105.9 (6022)
- Standl	by 111.7 (6352)	119.2 (6779)
Radiator Fan Load: kW (hp)	26.0 (34.9)	44.0 (59.0)
Radiator Cooling Airflow: m³/min (cfm)	972.0 (34326)	1164.0 (41106)
External Restriction to Cooling Airflow: Pa (in H ₂ O)	250 (1.0)	250 (1.0)

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)	123.0 (32.5)
Oil Pan: I (US gal)	113.4 (30.0)
Oil Type:	API CG4 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	180.0 (6357)	190.0 (6710)	
- Standby	180.0 (6357)	190.0 (6710)	
Exhaust Gas Temperature: °C (°F)			
- Prime	430 (806)	430 (806)	
- Standby	430 (806)	430 (806)	

Alternator Physical Data	
Manufactured for FG Wilson by:	Leroy Somer
Model:	LL7024L
No. of Bearings:	1
Insulation Class:	Н
Winding Pitch Code:	2/3 - 6\$
Wires:	6
Ingress Protection Rating:	IP23
Excitation System:	AREP
AVR Model:	R450M

Alternator Operating Data						
Overspeed: rpm	2250					
Voltage Reguation: (Steady state)	+/- 0.5					
Wave Form NEMA = TIF:	50					
Wave Form IEC = THF:	2.0%					
Total Harmonic content LL/LN:	4.0%					
Radio Interference:	Suppression is in line with Europear Standard EN61000-6					
Radiant Heat: kW (Btu/min)						
- 50 Hz	38.7 (2201)					
- 60 Hz	40.2 (2286)					

Alternator Performance Data:		50	Hz			60 Hz	
Data Item	415/240V	400/230V	380/220V	480/277V	380/220V		440/254V
Motor Starting Capability* kVA	2096	1962	1789	2307	1514		1977
Short Circuit Capacity** %	300	300	300	300	300		300
Reactances: Per Unit							
Xd	2.800	3.020	3.340	2.580	4.040		3.070
X'd	0.140	0.150	0.160	0.130	0.200		0.150
X"d	0.110	0.118	0.131	0.101	0.158		0.120

Reactances shown are applicable to prime ratings.

*Based on 30% voltage dip at 0.6 power factor.

**With optional permanent magnet generator or AREP excitation.

Output Ratings Technical Data 50 Hz					
Voltage	Prime:		Standby:		
	kVA	kW	kVA	kW	
415/240V	730.0	584.0	800.0	640.0	
400/230V	730.0	584.0	800.0	640.0	
380/220V	730.0	584.0	800.0	640.0	

Output Ratings Technical Data 60 Hz						
Voltage	Prime:		Standby:			
	kVA	kW	kVA	kW		
480/277V	750.0	600.0	844.0	675.2		
380/220V	735.0	588.0	810.0	648.0		
440/254V	750.0	600.0	844.0	675.2		

Documentation A full set of operation and maintenance manuals and circuit wiring diagrams. **Generating 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 with unlimited hours or two year manufacturer's warranty limited to 6,000 running hours. Standby equipment, limited to 500 running hours per year, has a three year manufacturer's warranty. 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