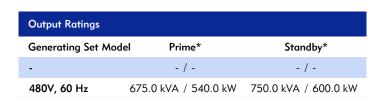


www.FGWilson.com

P675P5/P750E5



Ratings at 0.8 power factor.

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.

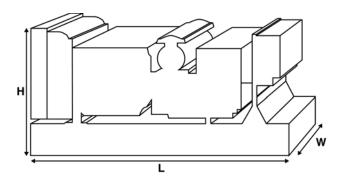




Image for illustration purposes only.

Ratings and Performance Do	ıta		
Engine Make & Model:		Perkins 2806A	-E18TAG3
Alternator manufactured for FG Wilson by:		Leroy Somer	
Alternator Model:		LL7024J	
Control Panel:		PowerWizard 1	
Base Frame:		Heavy Duty Fa	bricated Steel
Circuit Breaker Type:		3 Pole ACB/MC	ССВ
Frequency:		50 Hz	60 Hz
Engine Speed: RPM		-	1800
Fuel Tank Capacity: litres (US gal)		1000	(264.2)
Fuel Consumption: I/hr (US gal/h	nr)		
(100% Load)	- Prime	-	138.4 (36.6)
	- Standby	-	155.6 (41.1)

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)
4111 (161.9)	1536 (60.5)	2246 (88.4)	4905 (10814)	4975 (10968)
Dry = With Lube	Oil	Wet = With Lub	e Oil and Coolan	t

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

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Northern Ireland • Brazil • China • India • USA

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Engine Technical Data		
No. of Cylinders / Alignment:	6 / In Line	
Cycle:	4 Stroke	
Bore / Stroke: mm (in)	145.0 (5.7)/183.0 (7.2)	
Induction:	Turbocharged Air To Air Charge Cooled	
Cooling Method:	Water	
Governing Type:	Electronic	
Governing Class:	ISO 8528 G2	
Compression Ratio:	14.5:1	
Displacement: I (cu. in)	18.1 (1104.5)	
Moment of Inertia: kg m² (lb/in²)	7.44 (25424)	
Engine Electrical System:		
- Voltage / Ground	24/Negative	
- Battery Charger Amps	70	
Weight: kg (lb) - Dry	2050 (4519)	
- Wet	2158 (4758)	

Performance	50 Hz	60 Hz
Engine Speed: rpm	-	1800
Gross Engine Power: kW (hp)		
- Prime	-	617.5 (828.0)
- Standby	-	678.2 (909.0)
BMEP: kPa (psi)		
- Prime	-	2270.0 (329.3)
- Standby	-	2494.0 (361.7)

Eural	System
ruei	System

Fuel Filter Type: Eco Replaceable Element

Recommended Fuel: Class A2 Diesel

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

	110%	100%	75%	50%
Prime	Load	Load	Load	Load
50 Hz	-	-	-	-
60 Hz	155.3 (41.0)	138.4 (36.6)	103.3 (27.3)	72.6 (19.2)

Standby	110% Load	100% Load	75% Load	50% Load
50 Hz		-	-	-
60 Hz		155.6 (41.1)	114.7 (30.3)	79.2 (20.9)

(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:		Replacea	ble Element
Combustion Air Flow: m³/min (o	cfm)		
	- Prime	-	44.3 (1564)
	- Standby	-	47.6 (1681)
		-	6.3 (25.3)

Cooling System		50 Hz	60 Hz
Cooling System Capacity: 1 (JS gal)	-	61.0 (16.1)
Water Pump Type:		Cen	trifugal
Heat Rejected to Water & L	ube Oil:		
kW (Btu/min)	- Prime	-	163.9 (9321)
	- Standby	-	170.9 (9719)
Heat Radiation to Room: Heat radiated from engine and alternator			
kW (Btu/min)	- Prime	-	41.6 (2366)
	- Standby	-	45.6 (2593)
Radiator Fan Load: kW (hp)		-	14.0 (18.8)
Radiator Cooling Airflow: m ³	/min (cfm)	-	804.0 (28393)
External Restriction to Cooling Airflow: Pa (in H ₂ O)		-	125 (0.5)

Cooling system 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:	Eco, Full Flow
Total Oil Capacity: I (US gal)	55.5 (14.7)
Oil Pan: I (US gal)	53.5 (14.1)
Oil Type:	API CH4 / CI4
Oil Cooling Method:	Water

Exhaust System	50 Hz	60 Hz
Silencer Type:	Inc	lustrial
Silencer Model & Quantity:	SD	200 (1)
Pressure Drop Across Silencer System: kPa (in Hg)	-	0.47 (0.139)
Silencer Noise Reduction Level: dB	-	10
Maximum Allowable Back Pressure: kPa (in Hg)	-	6.8 (2.0)
Exhaust Gas Flow: m³/min (cfm)		
- Prime	-	130.0 (4591)
- Standby	-	143.0 (5050)
Exhaust Gas Temperature: °C (°F)		
- Prime	-	513 (955)
- Standby	-	542 (1008)

Alternator Physical Data	
Manufactured for FG Wilson by:	Leroy Somer
Model:	LL7024J
No. of Bearings:	1
Insulation Class:	Н
Winding Pitch Code:	2/3 - 6
Wires:	12
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 European Standard EN61000-6
Radiant Heat: kW (Btu/min)	
- 50 Hz	-
- 60 Hz	42.6 (2423)

Alternator Performance Data:	50 Hz	60 Hz		
Data Item		480/277V	380/220V	440/254V 220/127V
				220/12/1
Motor Starting		1993	1283	1694
Capability* kVA		1993	1203	1074
Short Circuit		300	300	300
Capacity** %		300	300	300
Reactances: Per Unit				
Xd		2.840	4.530	3.380
X'd		0.140	0.220	0.170
X"d		0.111	0.178	0.132

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.

Voltage Technical Data 50 Hz				
Voltage	Prime:		Standby:	
	kVA	kW	kVA	kW

Voltage Technical Data 60 Hz				
Voltage	Prime:		Standby:	
	kVA	kW	kVA	kW
480/277V	675.0	540.0	750.0	600.0
220/127V	675.0	540.0	750.0	600.0
380/220V	675.0	540.0	750.0	600.0
440/254V	675.0	540.0	750.0	600.0

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. 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:

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