# P800P1 / P900E1



<b>Output Ratings</b>		
Generating Set Model	P800P1	P900E1
	Prime*	Standby*
380-415V, 50 Hz	800 kVA	900 kVA
	640 kW	720 kW

<sup>\*</sup> Refer to ratings definitions on page 4. Ratings at 0.8 pf

Technical Data	
Engine Make & Model	Perkins 4006TAG3A
Alternator Model	LL7024P
Base Frame Type	Heavy Duty Fabricated Steel
Circuit Breaker Type/Rating	3 Pole ACB/MCCB
Frequency	50 Hz
Engine Speed	1500
Fuel Tank Capacity: Litres (US Gal)	1781 (471)
Fuel Consump, P800P1: L/hr (US Gal/hr)	163 (43.1)
Fuel Consump, P900E1: L/hr (US Gal/hr)	184 (48.5)



# **Engine Technical Data**

Physical Data		Air System	50 Hz
	Deal		
Manufacturer:	Perkins	Air Filter Type:	Replaceable Element
Model:	4006TAG3A	Combustion Air Flow:	
No. of Cylinders/Alignment:	6 In Line	m³min (cfm) -Standby:	73.0 (2578)
Cycle:	4 Stroke	-Prime:	69.0 (2437)
Induction:	Turbocharged	Max. Combustion Air Intake	
Cooling Method:	Water	Restriction: kPa (in H <sub>2</sub> O)	3.7 (14.9)
Governing Type:	Electronic	Radiator Cooling Airflow:	
Governing Class:	ISO 8528 G2	m³/min (cfm)	1134 (40047)
Compression Ratio:	13.6:1	External Restriction to	
Displacement: L (cu.in):	22.9 (1399)	Cooling Airflow: Pa (in Wg)	250 (1.0)
Bore/Stroke: mm (in)	160 (6.3) / 190 (7.5)		
Moment of Inertia: kg m² (lb/in²)	10.6 (36256)	Cooling System	50 Hz
Engine Electrical System:		Cooling System	
-Voltage/Ground	24/Negative	Capacity:L (US Gal)	105 (27.7)
-Battery Charger Amps	40	Water Pump Type:	Centrifugal
		Heat Rejected to Water &	Sommagan
Weight: kg (lbs) -Dry	2524 (5564)	Lube Oil: kW (Btu/min)	
-Wet	2663 (5871)	- Standby:	300 (17061)
		-Prime:	270 (15355)
Performance	50 Hz	Heat Radiation to Room:	270 (10000)
F	4500	kW (Btu/min) -Standby:	87.7 (4988)
Engine Speed: rpm	1500	-Prime:	98.9 (5574)
Gross Engine Power:	70 ( (105 1)	Radiator Fan Load: kW (hp)	26.0 (34.9)
kW (hp) -Standby:	786 (1054)	Radiator Farr Edad: kw (np)	20.0 (34.7)
-Prime:	705 (945)		
BMEP: kPa (psi)	0740 (000)		
-Standby:	2743 (398)	Lubrication System	
-Prime:	2461 (357)		
Regenerative Power: kW 70		Oil Filter Type:	Spin-On, Full Flow
		Total Oil Capacity L (US Gal):	123 (32.5)
		Oil Pan L (US Gal):	113 (30.0)
		Oil Type:	API CG4 15W-40
Fuel System		Cooling Method:	Water
Fuel Filter Type: Rep	laceable Element		
	s A2 Diesel	Exhaust System	50 Hz
		Silencer Type:	Level 1
Fuel Consumption: L/hr (US Gal/hr)		Silencer Model & Qty:	SD250 (1)
110% 100%	75% 50%	Pressure Drop Across	30230 (1)
Load Load	Load Load	Silencer System: kPa (in Hg)	1.4 (0.4)
P800P1		Silencer System: kPa (in Hg) Silencer Noise Reduction	1.4 (U.4)
50 Hz 179 (47.4) 163 (43.1)	124 (32.7) 88.2 (23.3)		20.0
. (,	(20.0)	Level: dB Max. Allowable Back	20.0
			7.0 (2.10)
P900E1		Pressure: kPa (in Hg)	7.0 (2.10)
		Exhaust Gas Flow: m³min (cfm)	102 // 01/ \
50 Hz - 184 (48.5)	138 (36.4) 96.8 (25.6)	- Standby:	193 (6816)
		- Prime:	193 (6816)
		Exhaust Gas Temperature:	500 (000)
(based on diesel fuel with a specific gravity of 0.85 and		°C (°F) - Standby:	500 (932)
conforming to BS2869, class A2		- Prime:	500 (932)
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### **Alternator Performance Data**

50 Hz			
380/220 400/230		415/240	
2228	2446	2613	
300	300	300	
3.06	2.77	2.57	
0.14	0.13	0.12	
0.116	0.105	0.098	
	300 3.06 0.14	380/220 400/230 2228 2446 300 300 3.06 2.77 0.14 0.13	

Reactances shown are applicable to prime ratings

## **Alternator Technical Data**

Physical Data		Operating Data		
Manufacturer:	FG Wilson	Overspeed: RPM		2250
Model:	LL7024P	Voltage Regulation (steady state)		+/- 0.5%
No. of Bearings:	Single	Wave Form NEMA =	=TIF	< 50
Insulation Class:	Н	Wave Form IEC=TH	łF	<2%
Winding Pitch/Code:	2/3- (No. 6S)	Total Harmonic Cor	ntent LL/LN	<4%
Wires:	6	Radio Interference	Suppression is in Standard EN6100	line with European 00-6
Ingress Protection Rating:	IP23	Radiant Heat: kW (Btu/min)		
Excitation System:	AREP		-50 Hz:	37.1 (2110)
AVR Model:	R448			



<sup>\*</sup> Based on 30% voltage dip. Improved motor starting capability is available with optional Permanent Magnet generator or AREP excitation

<sup>\*\*</sup> With optional Permanent Magnet generator or AREP excitation.

#### **Technical Data**

3 Phase Ratings and Performance at 50 Hz, 1500 RPM

Voltage	Model: P800P1 Prime		<b>Model: P900E1</b> Standby		
	kVA	kW	kVA	kW	
415/240	800	640	900	720	
400/230	800	640	900	720	
380/220	800	640	900	720	

#### **Definitions**

#### **Standby Rating**

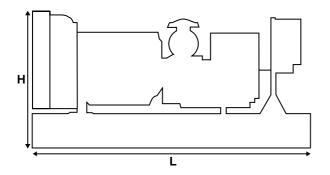
These ratings are applicable for supplying continuous electrical power (at variable load) in the event of a utility power failure. No overload is permitted on these ratings. The alternator on this model is peak continuous rated (as defined in ISO8528-3).

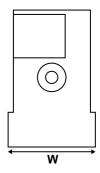
#### **Prime Rating**

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.

#### **Standard Reference Conditions**

Note: Standard reference conditions 27°C (80°F) Air Inlet Temp, 152.4m (500ft) A.S.L. 60% relative humidity. All engine performance data based on the above mentioned maximum continuous ratings. Fuel consumption data at full load with diesel fuel with specific gravity of 0.85 and conforming to BS2869: 1998, Class A2.





#### Weights & Dimensions

3				
Weights: kg (lbs)		Dimensions: mm (in)		
Net (+ lube oil)	6259 (13799)	Length	4280 (169)	1
Wet (+ lube oil & coolant)	6370 (14043)	Width	1912 (75.3)	
Fuel, lube oil & coolant	7875 (17361)	Height	2285 (90.0)	

#### **General Data**

#### **Documents**

A full set of operation and maintenance manuals, circuit wiring diagrams, and commissioning/fault finding instruction leaflets.

#### **Generating Set Standards**

The equipment meets the following standards: BS5000, ISO 8528, ISO 3406, IEC 60034, VDE 0530, NEMA MG-1.22.

#### Warranty

All equipment carries full manufacturer's warranty. Extended warranty terms available. For details on warranty cover please contact your local dealer.



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