

# P550P5/P605E5

Output Ratings			
Generating Set Mo	del Prime*	Standby*	
380-415V,50Hz	550.0 kVA / 440.0 kW	605.0 kVA / 484.0 kW	
	- / -	- / -	

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.

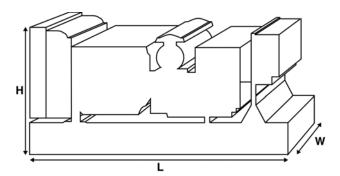
#### **Standby Rating**

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 Data			
Engine Make & Model:		Perkins 2806A-E18	TAG1
Alternator manufactured for FG Wilson by:		Leroy Somer	
Alternator Model:		LL6114G	
Control Panel:		PowerWizard 1	
Base Frame:		Heavy Duty Fabrica	ted Steel
Circuit Breaker Type:		3 Pole ACB/MCCB	
Frequency:		50 Hz	60 Hz
Engine Speed: RPM		1500	-
Fuel Tank Capacity: litres (US gal)		1000 (264	1.2)
Fuel Consumption: I/hr (US gal/hr)			
(100% Load)	- Prime	110.8 (29.3)	-
- S	Standby	122.5 (32.4)	-

## 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)	<b>Dry</b> kg (lb)	Wet kg (lb)
4111 (161.9)	1536 (60.5)	2246 (88.4)	4655 (10263)	4725 (10417)
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.

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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)	
		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 m <sup>2</sup> (Ib/in <sup>2</sup> )		7.44 (25424)	
Engine Electrical System:			
- Voltage / G	round	24/Negative	
- Battery Charger	Amps	70	
Weight: kg (lb)	- Dry	2050 (4519)	
	- Wet	2158 (4758)	

Performance		50 Hz	60 Hz
Engine Speed: rpm	ı	1500	-
Gross Engine Pow	<b>ver:</b> kW (hp)		
	- Prime	495.0 (664.0)	-
	- Standby	544.0 (730.0)	-
BMEP: kPa (psi)			
	- Prime	2184.0 (316.8)	-
	- Standby	2400.0 (348.1)	-

F	uel System	1			
F	uel Filter T	Filter Type: Eco Replaceable Element			
R	ecommen	ded Fuel:	C	lass A2 Diesel	
F	uel Consu	mption: I/hr (US g	al/hr)		
		110%	100%	75%	50%
	Prime	Load	Load	Load	Load
	50 Hz	122.3 (32.3)	110.8 (29.3)	83.9 (22.2)	59.2 (15.6)
	60 Hz	-	-	-	-
		110%	100%	75%	50%
	Standby	Load	Load	Load	Load
	50 Hz		122.5 (32.4)	91.9 (24.3)	64.2 (17.0)
	60 Hz		-	-	-

(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:	Replaceable	e Element
Combustion Air Flow: m <sup>3</sup> /min (cfm)		
- Prime	22.8 (805)	-
- Standby	24.9 (879)	-
Max. Combustion Air Intate Restriction: kPa (in H <sub>2</sub> O)	6.3 (25.3)	_

Cooling System	50 Hz	60 Hz	
Cooling System Capacity: I (US gal)	61.0 (16.1)	-	
Water Pump Type:	Centri	ifugal	
Heat Rejected to Water & Lube Oil:			
kW (Btu/min) - Prime	e 133.3 (7581)	-	
- Standby	138.7 (7888)	-	
Heat Radiation to Room: Heat radiated from engine and alternator			
kW (Btu/min) - Prime	e 30.9 (1757)	-	
- Standby	y 34.5 (1962)	-	
Radiator Fan Load: kW (hp)	8.0 (10.7)	-	
Radiator Cooling Airflow: m <sup>3</sup> /min (cfm)	660.0 (23308)	-	
External Restriction to Cooling Airflow: Pa (in H <sub>2</sub> 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.

Eco, Full Flow
55.5 (14.7)
53.5 (14.1)
API CH4 / CI4
Water

Full must Sustain	50 Hz	60 Hz
Exhaust System	SU HZ	OU IIZ
Silencer Type:	Industr	rial
Silencer Model & Quantity:	SD200	(1)
Pressure Drop Across Silencer System: kPa (in Hg)	0.15 (0.044)	-
Silencer Noise Reduction Level: dB	11	-
Maximum Allowable Back Pressure: <sup>kPa</sup> (in Hg)	6.8 (2.0)	-
Exhaust Gas Flow: m³/min (cfm)		
- Prime	109.0 (3849)	-
- Standby	109.0 (3849)	-
Exhaust Gas Temperature: °C (°F)		
- Prime	550 (1022)	-
- Standby	550 (1022)	-

Alternator Physical Data	
Manufactured for FG Wilson by:	Leroy Somer
Model:	LL6114G
No. of Bearings:	1
Insulation Class:	Н
Winding Pitch Code:	2/3 - 6
Wires:	12
Ingress Protection Rating:	IP23
Excitation System:	SHUNT
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:	2.0%
Radio Interference:	Suppression is in line with European Standard EN61000-6
Radiant Heat: kW (Btu/min)	
- 50 Hz	30.3 (1723)
- 60 Hz	-

Alternator Performance Data:	50 Hz				
Data Item	415/240V	400/230V	380/220V		
Motor Starting	1311	1227	1117		
Capability* kVA		/			
Short Circuit	300	300	300		
Capacity** %	500	500	500		
Reactances: Per Unit					
Xd	3.340	3.600	3.990		
X'd	0.170	0.180	0.200		
X"d	0.120	0.129	0.143		

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 Technical Data 60 Hz						
Voltage	Prime:		Standby:		Voltage	Prime:		Standby			
	kVA	kW	kVA	kW		kVA	kW	kVA			
415/240V	550.0	440.0	605.0	484.0							
400/230V	550.0	440.0	605.0	484.0							
380/220V	550.0	440.0	605.0	484.0							

## 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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