

P300-2

Output Ratings

Voltage, Frequency	Prime	Standby
400V, 50 Hz	275.0 kVA / 220.0 kW	300.0 kVA / 240.0 kW
	- / -	- / -

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.

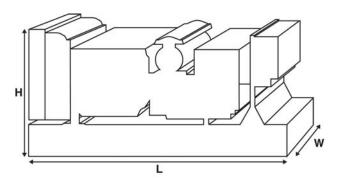




Image for illustration purposes only.

Ratings and Performance Data		
Engine Make & Model:	Perkins 1506D-E88TAG4	
Alternator manufactured for FG Wilson by:	Leroy Somer	
Alternator Model:	LL5014J	
Control Panel:	PowerWizard 1.1+	
Base Frame:	Heavy Duty Fabricated Stee	el
Circuit Breaker Type:	3 Pole MCCB	
Frequency:	50 Hz 60 Hz	
Engine Speed: rpm	1500 -	
Fuel Tank Capacity: litres (US gal)	587 (155.1)	
Fuel Consumption: I/hr (US gal/hr)		
(100% Load) - P	rime 60.6 (16.0) -	
- Sta	ndby 65.1 (17.2) -	

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 and Weights				
Length (L) mm (in)	Width (W) mm (in)	Height (H) mm (in)	Dry kg (lb)	Wet kg (lb)
3300 (129.9)	1100 (43.3)	1771 (69.7)	2390 (5269)	2426 (5348)
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)	112.0 (4.4)/149.0 (5.9)
Induction:	Turbocharged Air To Air Charge Cooled
Cooling Method:	Water
Governing Type:	Electronic
Governing Class:	ISO 8528 G2
Compression Ratio:	16.1:1
Displacement: I (cu. in)	8.8 (537.0)
Moment of Inertia: kg m² (lb/in²) 2.40 (8212	
Engine Electrical System:	
- Voltage / Grour	d 24/Negative
- Battery Charger Amp	os 45
Weight: kg (lb) - D	ry 778 (1715)
- W	et 800 (1764)

Performance		50 Hz	60 Hz
Engine Speed: rpm		1500	-
Gross Engine Pow	er: kW (hp)		
	- Prime	258.0 (346.0)	-
	- Standby	281.0 (377.0)	-
BMEP: kPa (psi)			
	- Prime	2344.0 (339.9)	-
	- Standby	2552.0 (370.2)	-

F	Fuel System				
Fuel Filter Type: Replaceable Element			nent		
R	ecommeno	led Fuel:	C	Class A2 Diesel c	or BSEN590
F	uel Consur	nption: I/hr (US g	al/hr)		
		110%	100%	75%	50%
	Prime	Load	Load	Load	Load
	50 Hz	65.1 (17.2)	60.6 (16.0)	48.2 (12.7)	35.7 (9.4)
	60 Hz	-	-	-	-
			100%	75%	50%
	Standby		Load	Load	Load
	50 Hz		65.1 (17.2)	51.6 (13.6)	38.0 (10.0)
	60 Hz		-	-	-

(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 Ele	ement
Combustion Air Flow: m ³ /min (cfm)		
- Prime	16.6 (586)	-
- Standby	17.5 (618)	-
Max. Combustion Air Intake Restriction: kPa (in H ₂ O)	6.2 (24.9)	-

Cooling System	50 Hz	60 Hz
Cooling System Capacity: I (US gal)	36.0 (9.5)	-
Water Pump Type:	Cent	rifugal
Heat Rejected to Water & Lube Oil:		
kW (Btu/min) - Pri	me 110.0 (6256)	-
- Stan	dby 118.0 (6711)	-
Heat Radiation to Room: Heat radiated from engine and alternator		
kW (Btu/min) - Pri	me 26.3 (1496)	
- Stand	dby 33.5 (1905)	
Radiator Fan Load: kW (hp)	7.7 (10.3)	-
Radiator Cooling Airflow: m ³ /min (cfm)	438.0 (15468)	-
External Restriction to Cooling Airflow: Pa (in H ₂ O)	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)	39.0 (10.3)
Oil Pan: I (US gal)	36.0 (9.5)
Oil Type:	API CI-4 0W-30
Oil Cooling Method:	Water

Exhaust System	50 Hz	60 Hz
Maximum Allowable Back Pressure: ^{kPa} (in Hg)	10.0 (3.0)	-
Exhaust Gas Flow: m ³ /min (cfm)		
- Prime	44.7 (1579)	-
- Standby	47.5 (1677)	-
Exhaust Gas Temperature: °C (°F)		
- Prime	558 (1036)	-
- Standby	566 (1051)	-

Alternator Physical Data		
Manufactured for FG Wilson by: Leroy Somer		
Model:	LL5014J	
No. of Bearings:	1	
Insulation Class:	Н	
Winding Pitch Code:	2/3 - 6	
Wires:	12	
Ingress Protection Rating:	IP23	
Excitation System:	SHUNT	
AVR Model:	R250	

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:	4.0%
Radio Interference:	Suppression is in line with European Standard EN61000-6
Radiant Heat: kW (Btu/min)	
- 50 Hz	18.5 (1052)
- 60 Hz	-

Standby:

kW

kVA

Alternator Performance Data:		50	Hz		60 Hz
Data Item	415/240V	400/230V 230/115V 230 V	380/220V		
Motor Starting Capability* kVA	623	586	536		
Short Circuit Capacity** %	300	300	300		
Reactances: Per Unit					
Xd	2.691	2.896	3.209		
X'd	0.123	0.133	0.147		
X"d	0.073	0.079	0.088		

Reactances shown are applicable to prime ratings. *Based on 30% voltage dip at 0.6 power factor and SHUNT excitation. **With optional permanent magnet generator or AREP excitation.

Voltage	Prime:		Star	ndby:	Voltage	Prime	
	kVA	kW	kVA	kW	voltage	kVA	
415/240V	275.0	220.0	300.0	240.0			
400/230V	275.0	220.0	300.0	240.0			
380/220V	275.0	220.0	300.0	240.0			
230/115V	275.0	220.0	300.0	240.0			
230 V	275.0	220.0	300.0	240.0			

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.

EU stage IIIA emissions compliant.

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.