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P2500-1/P2500-1E



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.

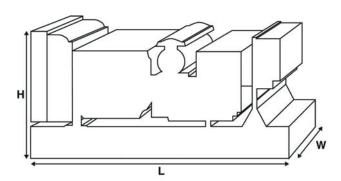




Image for illustration purposes only.

Ratings and Performance [Data		
Engine Make & Model:		Perkins® 4016-6	1TRG3
Alternator manufactured for FG Wilson by:	or	Leroy Somer	
Alternator Model:		LL9324P	
Control Panel:		PowerWizard 1.1+	+
Base Frame:		Heavy Duty Fabric	cated Steel
Circuit Breaker Type:		3 Pole ACB-Optio	n
Frequency:		50 Hz	60 Hz
Engine Speed: rpm		1500	-
Fuel Tank Capacity: litres (US gal)		-	
Fuel Consumption: I/hr (US go	al/hr)		
(100% Load)	- Prime	470.6 (124.3)	-
	- Standby	528.4 (139.6)	_

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 an	nd Weights			
Length (L) mm (in)	Width (W) mm (in)	Height (H) mm (in)	Dry kg (lb)	Wet kg (lb)
6038 (237.7)	2180 (85.8)	2900 (114.2)	12980 (28616)	13380 (29498)
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. Generator set pictured may include optional accessories.

Engine Technical Data	
No. of Cylinders / Alignment:	16 / 60Deg Vee
Cycle:	4 Stroke
Bore / Stroke: mm (in)	160.0 (6.3)/190.0 (7.5)
Induction:	Turbocharged Air To Water Charge Cooled
Cooling Method:	Water
Governing Type:	Electronic
Governing Class:	ISO 8528
Compression Ratio:	13.0:1
Displacement: I (cu. in)	61.1 (3730.0)
Moment of Inertia: kg m² (lb/in²)	20.72 (70803)
Engine Electrical System:	
- Voltage / Ground	24/Negative
- Battery Charger Amps	55
Weight: kg (lb) - Dry	5570 (12280)
- Wet	5847 (12890)

Performance		50 Hz	60 Hz
Engine Speed: rpm		1500	-
Gross Engine Power: kW (hp)		
- F	Prime	1975.0 (2648.5)	-
- Sta	ındby	2183.0 (2927.4)	-
BMEP: kPa (psi)			
- F	Prime	2584.8 (374.9)	-
- Sta	ındby	2857.2 (414.4)	-

F	uel Syste	m			
F	uel Filter	Туре:	R	Replaceable Eler	nent
R	lecomme	nded Fuel:	C	Class A2 Diesel o	or BSEN590
F	uel Consu	umption: I/hr (US g	al/hr)		
		110%	100%	75%	50%
	Prime	Load	Load	Load	Load
	50 Hz	528.4 (139.6)	470.6 (124.3)	350.8 (92.7)	244.5 (64.6)
	60 Hz	-	-	-	-

	100%	75%	50%
Standby	Load	Load	Load
50 Hz	528.4 (139.6)	389.2 (102.8)	266.9 (70.5)
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:		Replaceable	Element
Combustion Air Flow: m³/min (c	fm)		
	- Prime	160.0 (5650)	-
	- Standby	175.0 (6180)	-
Max. Combustion Air Intake Restriction: kPa (in H_2O)		3.7 (14.9)	-

Cooling System	50 Hz	60 Hz
Cooling System Capacity: I (US gal)	400.0 (105.7)	-
Water Pump Type:	Centrifu	ıgal
Heat Rejected to Water & Lube Oil:		
kW (Btu/min) - Prim	ne 757.0 (43050)	-
- Standl	by 830.0 (47201)	-
Heat Radiation to Room: Heat radiated fro	om engine and alternator	
kW (Btu/min) - Prim	ne 206.1 (11721)	
- Standt	oy 236.0 (13421)	
Radiator Fan Load: kW (hp)	77.0 (103.3)	-
Radiator Cooling Airflow: m³/min (cfm)	2184.0 (77127)	-
External Restriction to Cooling Airflow: Pa (in H ₂ O)	250 (1.0)	-

Lubrication System	
Oil Filter Type:	Spin-On, Full Flow
Total Oil Capacity: I (US gal)	238.0 (62.9)
Oil Pan: I (US gal)	213.0 (56.3)
Oil Type:	API CG 15W-40 CH4
Oil Cooling Method:	Water

Exhaust System	50 Hz	60 Hz
Maximum Allowable Back Pressure: kPa (in Hg)	4.0 (1.2)	-
Exhaust Gas Flow: m³/min (cfm)		
- Prime	477.0 (16845)	-
- Standby	525.0 (18540)	-
Exhaust Gas Temperature: °C (°F)		
- Prime	475 (887)	-
- Standby	560 (1040)	-

Alternator Physical Data	
Manufactured for FG Wilson by:	Leroy Somer
Model:	LL9324P
No. of Bearings:	1
Insulation Class:	Н
Winding Pitch Code:	2/3 - 6S
Wires:	6
Ingress Protection Rating:	IP23
Excitation System:	AREP
AVR Model:	D510

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:	3.5%
Radio Interference:	Suppression is in line with European Standard EN61000-6
Radiant Heat: kW (Btu/min)	
- 50 Hz	76.0 (4322)
- 60 Hz	-

Alternator Performance Data:	50 Hz			60 I		
Data Item	415/240V	400/230V	380/220V			
Motor Starting Capability* kVA	8870	8266	7491			
Short Circuit Capacity** %	300	300	300			
Reactances: Per Unit						
Xd	3.057	3.291	3.646			
X'd	0.235	0.253	0.280			
X"d	0.118	0.127	0.140			

Reactances shown are applicable to prime ratings. *Based on 30% voltage dip at 0.4 power factor. **With optional permanent magnet generator.

Output Ratings Technical Data 50 Hz						
Voltage	Pri	me:	Standby:			
	kVA	kW	kVA	kW		
415/240V	2250.0	1800.0	2500.0	2000.0		
400/230V	2250.0	1800.0	2500.0	2000.0		
380/220V	2250.0	1800.0	2496.9	1997.6		

Output Ratings Technical Data 60 Hz							
Voltage	Pri	ime:	Standby:				
	kVA	kW	kVA	kW			

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. 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