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P1350P1/P1500E1

Output Ratings		
Voltage, Frequency	Prime	Standby
400V, 50 Hz	1350.0 kVA / 1080.0 kW	1500.0 kVA / 1200.0 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.

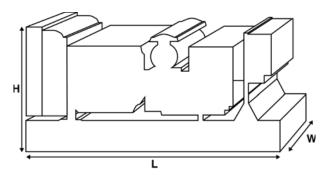


Image for illustration purposes only.

Ratings and Performance D	ata		
Engine Make & Model:		Perkins® 4012-4	6TWG3A
Alternator manufactured for FG Wilson by:	r	Leroy Somer	
Alternator Model:		LL8224L	
Control Panel:		PowerWizard 1.1	+
Base Frame:		Heavy Duty Fabri	cated Steel
Circuit Breaker Type:		3 Pole ACB - Op	tion
Frequency:		50 Hz	60 Hz
Engine Speed: RPM		1500	-
Fuel Tank Capacity: litres (US gal)		-	
Fuel Consumption: I/hr (US gal	/hr)		
(100% Load)	- Prime	279.2 (73.8)	-
	- Standby	313.4 (82.8)	-

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 ar	nd Weights			
Length (L) mm (in)	Width (W) mm (in)	Height (H) mm (in)	Dry kg (lb)	Wet kg (lb)
4888 (192.4)	1895 (74.6)	2450 (96.5)	9246 (20384)	9447 (20827)
Dry = With Lube Oil Wet = With Lube 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.

Engine Technical Data	
No. of Cylinders / Alignment:	12 / Vee
Cycle:	4 Stroke
Bore / Stroke: mm (in)	160.0 (6.3)/190.0 (7.5)
Induction:	Turbocharged
Cooling Method:	Water
Governing Type:	Electronic
Governing Class:	ISO 8528
Compression Ratio:	13.0:1
Displacement: I (cu. in)	45.8 (2797.5)
Moment of Inertia: kg m² (lb/in²)	19.30 (65951)
Engine Electrical System:	
- Voltage / Ground	d 24/Negative
- Battery Charger Amp	s 40
Weight: kg (lb) - Dr	y 4440 (9788)
- We	t 4604 (10150)

Performance	50 Hz	60 Hz
Engine Speed: rpm	1500	-
Gross Engine Power: kW (hp)		
- Prime	e 1200.0 (1609.0)	-
- Standb	y 1314.0 (1762.0)	-
BMEP: kPa (psi)		
- Prime	e 2094.0 (303.7)	-
- Standb	y 2293.0 (332.6)	-

Fuel System

Fuel Filter Type: Replaceable Element

Recommended Fuel: Class A2 Diesel or BSEN590

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

	110%	100%	75%	50%
Prime	Load	Load	Load	Load
50 Hz	313.4 (82.8)	279.2 (73.8)	210.2 (55.5)	152.3 (40.2)
60 Hz	-	-	-	-

	100%	75%	50%
Standby	Load	Load	Load
50 Hz	313.4 (82.8)	232.0 (61.3)	164.2 (43.4)
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	108.0 (3814)	-
	- Standby	114.0 (4026)	-
Max. Combustion Air Intake Restriction: kPa (in H_2O)		4.0 (16.1)	-

Cooling System	50 Hz	60 Hz
Cooling System Capacity: I (US ga	196.0 (51.8	8) -
Water Pump Type:	C	entrifugal
Heat Rejected to Water & Lube	Oil:	
kW (Btu/min)	- Prime 395.0 (2246	
-:	Standby 441.0 (250)	79) -
Heat Radiation to Room: Heat rad	iated from engine and alter	nator
kW (Btu/min)	- Prime 140.7 (800	1)
-15	Standby 158.8 (903	1)
Radiator Fan Load: kW (hp)	51.0 (68.4	
Radiator Cooling Airflow: m³/min	(cfm) 1620.0 (5721	
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)	177.0 (46.8)
Oil Pan: I (US gal)	157.5 (41.6)
Oil Type:	API CH4 15W-40
Oil Cooling Method:	Water

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.

Exhaust System	50 Hz	60 Hz
Maximum Allowable Back Pressure: kPa (in Hg)	5.0 (1.5)	-
Exhaust Gas Flow: m³/min (cfm)		
- Prime	240.0 (8476)	-
- Standby	240.0 (8476)	-
Exhaust Gas Temperature: °C (°F)		
- Prime	474 (885)	-
- Standby	474 (885)	-

Alternator Physical Data	
Manufactured for FG Wilson by:	Leroy Somer
Model:	LL8224L
No. of Bearings:	1
Insulation Class:	Н
Winding Pitch Code:	2/3 - 6\$
Wires:	6
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:	3.5%			
Radio Interference:	Suppression is in line with European Standard EN61000-6			
Radiant Heat: kW (Btu/min)				
- 50 Hz	62.8 (3571)			
- 60 Hz	-			

Alternator Performance Data:	50 Hz			60 Hz	
Data Item	415/240V	400/230V	380/220V		
Motor Starting					
Capability* kVA	3312	3087	2798		
Short Circuit					
Capacity** %	300	300	300		
Reactances: Per Unit					
Xd	3.386	3.645	4.039		
X'd	0.227	0.245	0.271		
X"d	0.125	0.134	0.149		

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.

Output Ratin	igs Technical Prin	Data 50 Hz ne:	Standby:		
ronage	kVA	kW	kVA	kW	
415/240V	1350.0	1080.0	1485.0	1188.0	
400/230V	1350.0	1080.0	1500.0	1200.0	
380/220V	1350.0	1080.0	1485.0	1188.0	

Output Ratin			1 6			
Voltage	Pr	Prime:		Standby:		
	kVA	kW	kVA	kW		

General Information
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 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.