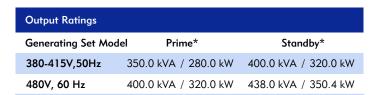


www.FGWilson.com

P350P5/P400E5



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.

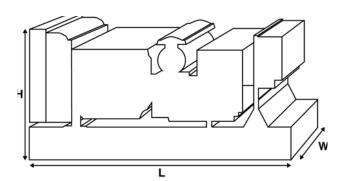




Image for illustration purposes only.

Ratings and Performance Data		
Engine Make & Model:	Perkins 2206A-I	E13TAG2/5
Alternator manufactured for FG Wilson by:	Leroy Somer	
Alternator Model:	LL6114B	
Control Panel:	PowerWizard 1	
Base Frame:	Heavy Duty Fab	ricated Steel
Circuit Breaker Type:	3 Pole MCCB	
Frequency:	50 Hz	60 Hz
Engine Speed: RPM	1500	1800
Fuel Tank Capacity: litres (US gal)	867 (229.0)	
Fuel Consumption: I/hr (US gal/hr)		
(100% Load) - Prim	e 71.4 (18.9)	86.5 (22.9)
- Standb	y 79.1 (20.9)	94.3 (24.9)

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)	Dry kg (lb)	Wet kg (lb)
3500 (137.8)	1110 (43.7)	2158 (85.0)	2670 (5886)	2715 (5986)
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. 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 / Alignme	nt:	6 / In Line	
Cycle:		4 Stroke	
Bore / Stroke: mm (in)		130.0 (5.1)/157.0 (6.2)	
Induction:		Turbocharged Air To Air Charge Cooled	
Cooling Method:		Water	
Governing Type:		Electronic	
Governing Class:		ISO 8528 G2	
Compression Ratio:		16.3:1	
Displacement: I (cu. in)		12.5 (762.8)	
Moment of Inertia: kg m² (lb/	în²)	2.77 (9465)	
Engine Electrical System:			
- Voltage / Gr	ound	24/Negative	
- Battery Charger A	Amps	70	
Weight: kg (lb)	- Dry	1301 (2868)	
	- Wet	1351 (2978)	

Performance		50 Hz	60 Hz
Engine Speed: rpm		1500	1800
Gross Engine Power	: kW (hp)		
	- Prime	324.2 (435.0)	372.4 (499.0)
	- Standby	368.4 (494.0)	405.5 (544.0)
BMEP: kPa (psi)			
	- Prime	2075.0 (300.9)	1986.0 (288.0)
	- Standby	2357.0 (341.9)	2162.0 (313.6)

Eural	Custom	

Fuel Filter Type:Replaceable ElementRecommended Fuel:Class A2 Diesel

 $\pmb{Fuel\ Consumption:}\ \textit{I/hr}\ (\textit{US\ gal/hr})$

	110%	100%	75%	50%
Prime	Load	Load	Load	Load
50 Hz	79.1 (20.9)	71.4 (18.9)	56.5 (14.9)	40.1 (10.6)
60 Hz	94.3 (24.9)	86.5 (22.9)	66.9 (17.7)	48.2 (12.7)

	110%	100%	75%	50%
Standby	Load	Load	Load	Load
50 Hz		79.1 (20.9)	63.1 (16.7)	45.0 (11.9)
60 Hz		94.3 (24.9)	72.4 (19.1)	51.7 (13.7)

(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:		Paper Ele	ment 15"
Combustion Air Flow: m³/min (cfm)		
	- Prime	21.3 (752)	23.8 (840)
	- Standby	23.6 (833)	25.7 (908)
Max. Combustion Air Intate Restriction: kPa (in H_2O)		6.4 (25.7)	6.4 (25.7)

Cooling System		50 Hz	60 Hz
Cooling System Capacity: I (US gal)		45.2 (11.9)	45.2 (11.9)
Water Pump Type:		Centr	ifugal
Heat Rejected to Water & Lube Oil	:		
kW (Btu/min) - F	Prime	113.5 (6455)	137.0 (7791)
- Sta	ndby	128.5 (7308)	148.9 (8468)
Heat Radiation to Room: Heat radiate	d from	engine and alternator	
kW (Btu/min) - F	Prime	24.0 (1365)	44.6 (2536)
- Sta	ndby	32.0 (1820)	47.3 (2690)
Radiator Fan Load: kW (hp)		12.0 (16.1)	20.0 (26.8)
Radiator Cooling Airflow: m³/min (cfm	1)	599.4 (21168)	742.8 (26232)
External Restriction to Cooling Airflow: Pa (in H ₂ O)		125 (0.5)	125 (0.5)

Lubrication System	
Oil Filter Type:	Eco, Full Flow
Total Oil Capacity: I (US gal)	40.0 (10.6)
Oil Pan: I (US gal)	38.0 (10.0)
Oil Type:	API CH4 SAE15W-40
Oil Cooling Method:	Water

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.

Exhaust System	50 Hz	60 Hz
Silencer Type:	Indu	ıstrial
Silencer Model & Quantity:	243-6	273 (1)
Pressure Drop Across Silencer System: kPa (in Hg)	1.87 (0.552)	0.94 (0.278)
Silencer Noise Reduction Level: dB	13	20
Maximum Allowable Back Pressure: kPa (in Hg)	10.0 (3.0)	10.0 (3.0)
Exhaust Gas Flow: m³/min (cfm)		
- Prime	56.5 (1995)	67.5 (2384)
- Standby	64.6 (2281)	73.5 (2596)
Exhaust Gas Temperature: °C (°F)		
- Prime	551 (1024)	603 (1117)
- Standby	630 (1166)	660 (1220)

Alternator Physical Data	
Manufactured for FG Wilson by:	Leroy Somer
Model:	LL6114B
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	24.1 (1371)		
- 60 Hz	26.0 (1479)		

Alternator Performance Data:		50	Hz			60 Hz	
Data Item	415/240V	400/230V	380/220V	480/277V	380/220V		440/254V 220/127V
Motor Starting Capability* kVA	797	745	678	880	572		751
Short Circuit Capacity** %	300	300	300	300	300		300
Reactances: Per Unit							
Xd	2.987	3.216	3.563	3.060	4.886		3.645
X'd	0.172	0.185	0.205	0.180	0.280		0.210
X"d	0.120	0.130	0.143	0.123	0.197		0.147

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	Prime:		Standby:		
	kVA	kW	kVA	kW	
415/240V	350.0	280.0	400.0	320.0	
400/230V	350.0	280.0	400.0	320.0	
380/220V	350.0	280.0	400.0	320.0	

Voltage Technical Data 60 Hz					
Voltage	Pri	me:	Standby:		
	kVA	kW	kVA	kW	
480/277V	400.0	320.0	438.0	350.4	
220/127V	400.0	320.0	438.0	350.4	
380/220V	400.0	320.0	436.0	348.8	
440/254V	400.0	320.0	438.0	350.4	

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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General Information

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