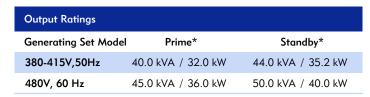


www.FGWilson.com

P44-1



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.

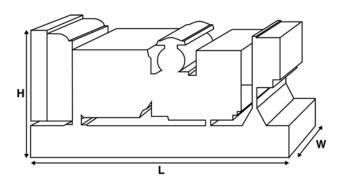




Image for illustration purposes only.

Ratings and Performance Do	ıta		
Engine Make & Model:	F	Perkins 1104A-4	14G
Alternator manufactured for FG Wilson by:	ι	eroy Somer	
Alternator Model:	l	L2014C	
Control Panel:	1	002T	
Base Frame:	F	-bc2 - (08Hr)	
Circuit Breaker Type:	3	3 Pole MCB	
Frequency:		50 Hz	60 Hz
Engine Speed: RPM		1500	1800
Fuel Tank Capacity: litres (US gal)		219 (57.9)	
Fuel Consumption: I/hr (US gal/	hr)		
(100% Load)	- Prime	9.2 (2.4)	10.6 (2.8)
	- Standby	10.2 (2.7)	12.0 (3.2)

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)
1925 (75.8)	1120 (44.1)	1361 (53.6)	827 (1823)	973 (2145)
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.

FG Wilson has manufacturing facilities 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

Engine Technical Data	
No. of Cylinders / Alignment:	4 / In Line
Cycle:	4 Stroke
Bore / Stroke: mm (in)	105.0 (4.1)/127.0 (5.0)
Induction:	Naturally Aspirated
Cooling Method:	Water
Governing Type:	Mechanical
Governing Class:	ISO 8528 G2
Compression Ratio:	19.25:1
Displacement: I (cu. in)	4.4 (268.5)
Moment of Inertia: kg m² (lb/in²)	1.14 (3896)
Engine Electrical System:	
- Voltage / Ground	12/Negative
- Battery Charger Amps	65
Weight: kg (lb) - Dry	445 (981)
- Wet	465 (1025)

Performance		50 Hz	60 Hz
Engine Speed: rpm		1500	1800
Gross Engine Powe	er: kW (hp)		
	- Prime	40.5 (54.0)	48.6 (65.0)
	- Standby	45.0 (60.0)	54.0 (72.0)
BMEP: kPa (psi)			
	- Prime	736.0 (106.8)	736.0 (106.8)
	- Standby	818.0 (118.7)	818.0 (118.7)

Fuel System

Fuel Filter Type:Replaceable ElementRecommended Fuel:Class A2 Diesel

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

	110%	100%	75%	50%
Prime	Load	Load	Load	Load
50 Hz	10.2 (2.7)	9.2 (2.4)	7.1 (1.9)	5.3 (1.4)
60 Hz	12.0 (3.2)	10.6 (2.8)	8.2 (2.2)	6.8 (1.8)

	110%	100%	75%	50%
Standby	Load	Load	Load	Load
50 Hz		10.2 (2.7)	7.7 (2.0)	5.6 (1.5)
60 Hz		12.0 (3.2)	8.9 (2.4)	7.0 (1.9)

(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 Element	
Combustion Air Flow: m³/min	(cfm)		
	- Prime	2.8 (99)	3.4 (120)
	- Standby	2.8 (99)	3.4 (120)
Max. Combustion Air Intate Restriction: kPa (in H ₂ O)		6.6 (26.5)	6.6 (26.5)

Cooling System		50 Hz	60 Hz
Cooling System Capacity: I (US	gal)	12.8 (3.4)	12.8 (3.4)
Water Pump Type:		Centr	ifugal
Heat Rejected to Water & Lub	e Oil:		
kW (Btu/min)	- Prime	24.6 (1399)	30.7 (1746)
	- Standby	27.4 (1558)	31.0 (1763)
Heat Radiation to Room: Heat r	radiated from e	engine and alternator	
kW (Btu/min)	- Prime	12.1 (688)	11.7 (665)
	- Standby	13.8 (785)	13.5 (768)
Radiator Fan Load: kW (hp)		0.5 (0.7)	0.9 (1.2)
Radiator Cooling Airflow: m³/mi	in (cfm)	74.4 (2627)	97.8 (3454)
External Restriction to Cooling Airflow: Pa (in H ₂ O)		120 (0.5)	120 (0.5)

Lubrication System	
Oil Filter Type:	Spin-On, Full Flow
Total Oil Capacity: I (US gal)	8.0 (2.1)
Oil Pan: I (US gal)	7.8 (2.1)
Oil Type:	API CG4 / 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
Silencer Type:	Indu	ıstrial
Silencer Model & Quantity:	SD8	0 (1)
Pressure Drop Across Silencer System: kPa (in Hg)	0.33 (0.097)	0.45 (0.133)
Silencer Noise Reduction Level: dB	18.2	16.5
Maximum Allowable Back Pressure: kPa (in Hg)	12.0 (3.5)	15.0 (4.4)
Exhaust Gas Flow: m³/min (cfm)		
- Prime	8.0 (283)	9.8 (346)
- Standby	9.4 (332)	11.5 (406)
Exhaust Gas Temperature: °C (°F)		
- Prime	523 (973)	553 (1027)
- Standby	615 (1139)	650 (1202)

Alternator Physical Data	
Manufactured for FG Wilson by:	Leroy Somer
Model:	LL2014C
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 Reguation: (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	4.8 (273)
- 60 Hz	5.5 (313)

Alternator Performance Data:		50	Hz				60 Hz		
Data Item	415/240V	400/230V 230/115V 200/115V	380/220V 220/110V	220/127V	480/277V 240/139V	380/220V 220/110V	240/120V 208/120V	230/115V	440/254V 220/127V
Motor Starting Capability* kVA	89	84	76	99	98	65	76	71	84
Short Circuit Capacity** %	300	300	300	300	300	300	300	300	300
Reactances: Per Unit									
Xd	2.366	2.547	2.822	2.110	2.388	3.810	3.179	3.439	2.842
X'd	0.104	0.112	0.124	0.090	0.105	0.168	0.140	0.151	0.125
X"d	0.052	0.056	0.062	0.046	0.053	0.084	0.070	0.076	0.063

Reactances shown are applicable to prime ratings.

*Based on 30% voltage dip at 0.6 power factor.

**With optional permanent magnet generator or SHUNT excitation.

Voltage Technical Data 50 Hz					
Voltage	Pri	me:	Standby:		
	kVA	kW	kVA	kW	
415/240V	40.0	32.0	44.0	35.2	
400/230V	40.0	32.0	44.0	35.2	
380/220V	40.0	32.0	44.0	35.2	
230/115V	40.0	32.0	44.0	35.2	
220/127V	40.0	32.0	44.0	35.2	
220/110V	40.0	32.0	44.0	35.2	
200/115V	40.0	32.0	44.0	35.2	

Voltage Technical Data 60 Hz					
Voltage	Pri	me:	Standby:		
	kVA	kW	kVA	kW	
480/277V	45.0	36.0	50.0	40.0	
220/127V	45.0	36.0	50.0	40.0	
380/220V	45.0	36.0	50.0	40.0	
240/120V	45.0	36.0	50.0	40.0	
230/115V	45.0	36.0	50.0	40.0	
440/254V	45.0	36.0	50.0	40.0	
220/110V	45.0	36.0	50.0	40.0	
208/120V	45.0	36.0	50.0	40.0	
240/139V	45.0	36.0	50.0	40.0	

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.	
To wilson is a fally accreaited 150 7001 company.	
Warranty	
All prime equipment carries a one year manufacturer's warranty. Standby equipment, limited to 500 running hours per year, has a	a two year manufacturer's
warranty. For details on warranty cover please contact your local Dealer, or visit our website: FGWilson.com.	
Dealer of the day the	
Dealer contact details:	

FG Wilson has manufacturing facilities in the following locations:

Northern Ireland • Brazil • China • India • USA

General Information

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