

P35-2S

Output Ratings		
Generating Set Mode	el Prime*	Standby*
220-240V, 50 Hz	32.0 kVA / 32.0 kW	35.0 kVA / 35.0 kW
	- / -	- / -

Ratings at 1.0 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.

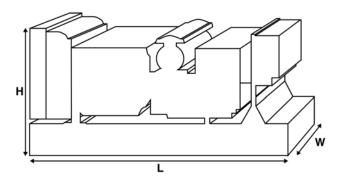




Image for illustration purposes only.

Ratings and Performance Da	ta		
Engine Make & Model:		Perkins 1103C-3	3TG2/3
Alternator manufactured for FG Wilson by:		Leroy Somer	
Alternator Model:		LL2014H	
Control Panel:		1002T	
Base Frame:		Fbc2 - (08Hr)	
Circuit Breaker Type:		3 Pole MCCB	
Frequency:		50 Hz	60 Hz
Engine Speed: RPM		1500	-
Fuel Tank Capacity: litres (US gal)		219 (5	57.9)
Fuel Consumption: I/hr (US gal/h	ır)		
(100% Load)	- Prime	9.6 (2.5)	-
	- Standby	10.6 (2.8)	-

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 and 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)	959 (2114)	972 (2143)
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:		3 / In Line
Cycle:		4 Stroke
Bore / Stroke: mm (in)		105.0 (4.1)/127.0 (5.0)
Induction:		Turbocharged
Cooling Method:		Water
Governing Type:		Mechanical
Governing Class:		ISO 8528 G2
Compression Ratio:		18.2:1
Displacement: I (cu. in)		3.3 (201.4)
Moment of Inertia: kg m ² (lb/in ²)		1.14 (3896)
Engine Electrical Syster	n:	
- Voltage /	- Voltage / Ground 12/Negative	
- Battery Charger Amps		65
Weight: kg (lb)	- Dry	420 (926)
	- Wet	438 (966)

Air Systems	50 Hz	60 Hz
Air Filter Type:	Replaceab	le Element
Combustion Air Flow: m ³ /min (cfm)		
- Prime	2.9 (102)	-
- Standby	3.1 (109)	-
Max. Combustion Air Intate	5.0 (20.1)	

 $\label{eq:Restriction: kPa} \textbf{(in } \textbf{H}_2\textbf{O})$

5.0 (20.1)

-

Cooling System	5	50 Hz	60 Hz
Cooling System Capacity: I (US gal)	10	.2 (2.7)	-
Water Pump Type:		Centri	fugal
Heat Rejected to Water & Lube Oil:			
kW (Btu/min) - Pr	me 26.4	4 (1501)	-
- Stan	dby 29.0	0 (1649)	-
Heat Radiation to Room: Heat radiated	from engine	and alternator	
kW (Btu/min) - Pr	me 13.	.0 (739)	
- Stan	dby 14.	.6 (830)	
Radiator Fan Load: kW (hp)	1.	0 (1.3)	-
Radiator Cooling Airflow: m ³ /min (cfm)	62.4	4 (2204)	-
External Restriction to Cooling Airflow: Pa (in H ₂ O)	12	25 (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)	8.3 (2.2)
Oil Pan: I (US gal)	7.8 (2.1)
Oil Type:	API CG4 / CH4 15W-40
Oil Cooling Method:	Water

Exhaust System	50 Hz	60 Hz
Silencer Type:	Industr	rial
Silencer Model & Quantity:	SD50	(1)
Pressure Drop Across Silencer System: kPa (in Hg)	1.14 (0.337)	-
Silencer Noise Reduction Level: dB	15	-
Maximum Allowable Back Pressure: ^{kPa} (in Hg)	12.0 (3.5)	-
Exhaust Gas Flow: m ³ /min (cfm)		
- Prime	6.0 (212)	-
- Standby	7.0 (247)	-
Exhaust Gas Temperature: °C (°F)		
- Prime	542 (1008)	-
- Standby	581 (1078)	-

Performance		50 Hz	60 Hz
Engine Speed: rpn	n	1500	-
Gross Engine Pov	ver: kW (hp)		
	- Prime	41.9 (56.0)	-
	- Standby	46.5 (62.0)	-
BMEP: kPa (psi)			
	- Prime	1016.0 (147.4)	-
	- Standby	1127.0 (163.5)	-

Fuel System				
Fuel Filter T	ype: Replaceable Element			
Recommend	led Fuel:	C	Class A2 Diesel	
Fuel Consun	nption: I/hr (US g	al/hr)		
	110%	100%	75%	50%
Prime	Load	Load	Load	Load
50 Hz	10.6 (2.8)	9.6 (2.5)	7.4 (2.0)	5.3 (1.4)
60 Hz	-	-	-	-
	110%	100%	75%	50%
Standby	Load	Load	Load	Load
50 Hz		10.6 (2.8)	8.0 (2.1)	5.7 (1.5)
60 Hz		-	-	-
			and conforming t	

(Based on diesel fuel with a specific gravity of 0.84 and conforming to BS2869, Class A2)

Alternator Physical Data	
Manufactured for FG Wilson by:	Leroy Somer
Model:	LL2014H
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	6.1 (347)
- 60 Hz	-

Alternator Performance Data:		50	Hz		60 Hz
Data Item	240V	230V	220V		
Motor Starting					
Capability* kVA	130	122	115		
Short Circuit					
Capacity** %	-	-	-		
Reactances: Per Unit					
Xd	1.510	1.650	1.800		
X'd	0.100	0.110	0.120		
X"d	0.048	0.053	0.058		

Reactances shown are applicable to prime ratings. *Based on 30% voltage dip at 0.9 power factor. **With optional permanent magnet generator or SHUNT excitation.

Voltage Technical Data 50 Hz					Voltage Technical Data 60 Hz						
Voltage	Prime:		Standby:		Voltage	Prime:		Standby			
	kVA	kW	kVA	kW		kVA	kW	kVA			
240V	32.0	32.0	35.0	35.0							
230V	32.0	32.0	35.0	35.0							
220V	32.0	32.0	35.0	35.0							

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.

EU Stage II 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:

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