

PRELIMINARY

These figures may be subject to change

Output Ratings		
Generating Set Model	P80P1	P88E1
380 – 415V, 50 Hz	80.0 kVA	88.0 kVA
	64.0 kW	70.4 kW
480V, 60 Hz	90.0 kVA	100.0 kVA
	72.0 kW	80.0 kW

Ratings at 0.8 pf

Ratings Definitions

Prime Power – Model P80P1

These ratings are applicable for supplying continuous electrical power (at variable load) in lieu of commercially purchased power. This model can supply 10% overload power for 1 hour in 12 hours.

Standby Power – Model P88E1

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 model is peak continuous rated (as defined in ISO 8528-3).

Technical Data		
Engine Model:	Perkins 1104A-44TG2	
Alternator Model:	LL2014L	
Number of Cylinders:	4 in line	
Displacement: Litres (cu.in)	4.4 (268.5)	
Bore/Stroke: mm (in)	105.0 (4.1) / 127.0 (5.0)	
Compression ratio:	17.25:1	
Induction:	Turbocharged	
Frequency:	50 Hz	60 Hz
Engine Speed:	1500 RPM	1800 RPM
Gross Engine Power: kW (hp)	80.7 (108.0)	95.1 (128.0)
BMEP: kPA (psi)	1468.0 (212.9)	1441.0 (209.0)
Piston Speed: m/sec (ft/sec)	6.4 (20.8)	7.6 (25.0)
Fuel Tank Capacity: Litres (US Gal)	175 (46.2)	175 (46.2)
Fuel Consump, P80P1: 1/hr (USg/hr)	22.6 (6.0)	25.8 (6.8)
Fuel Consump, P88E1: 1/hr (USg/hr)	25.1 (6.6)	28.8 (7.6)
Heat Rejected to Exhaust System: kW (Btu/min)	59.0 (3355)	71.0 (4038)
Heat Rejected to Water & Lube Oil: kW (Btu/min)	51.0 (2900)	57.0 (3242)
Heat Radiated to Room: kW (Btu/min)	20.9 (1189)	23.0 (1308)
Exhaust Gas Temperature: °C (°F)	TBA	TBA
Radiator Cooling Air Flow: m ³ /min (cfm)	121.2 (4280)	140.4 (4958)
Combustion Air Flow: m ³ /min (cfm)	5.1 (180)	6.5 (230)
Exhaust Gas Flow: m ³ /min (cfm)	TBA	TBA

Note: Standard reference conditions 27°C (80°F) Air Inlet Temp, 152.4m (500ft) A.S.L. 60% relative humidity. All engine performance data based on the above mentioned maximum continuous ratings. Fuel consumption data at full load with diesel fuel with specific gravity of 0.85 and conforming to BS2869: 1998, Class A2.

Dimensions and Weights				
Length: mm (in)	Width: mm (in)	Height: mm (in)	Dry: kg (lb)	Wet: kg (lb)
2149 (84.6)	752 (29.6)	1366 (53.8)	990 (2183)	1010 (2227)
Dry = With Lube Oil			Wet = With Lube Oil and Coolant	

Generating set pictured may include optional accessories



P80P1 – P88E1



FG Wilson (Engineering) Ltd
Old Glenarm Road, Larne, County Antrim BT40 1EJ
Northern Ireland, United Kingdom
Tel: +44 (0) 28 2826 1000 Fax: +44 (0) 28 2826 1111
www.FGWilson.com

