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Output Ratings

Generating Set Model	P45P3	P50E3
380-415V, 50 Hz	45.0 kVA 36.0 kW	50.0 kVA 40.0 kW
480V, 60 Hz	50.0 kVA 40.0 kW	56.3 kVA 45.0 kW

Ratings at 0.8 power factor.

Ratings Definitions

Prime Power - Model P45P3

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 Power - Model P50E3

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).

Technical Data

Engine Make & Model:	Perkins 1103A-33TG1	
Alternator Model:	LL2014C	
No. of Cylinders/Alignment:	3 / In Line	
Displacement: litres (cu.in)	3.3 (201.4)	
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)	46.4 (62.0)	55.6 (75.0)
BMEP: kPa (psi)	1125.0 (163.2)	1124.0 (163.0)
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, P45P3 l/hr (USg/hr)	10.6 (2.8)	11.9 (3.1)
Fuel Consump, P50E3 l/hr (USg/hr)	11.9 (3.1)	13.5 (3.6)
Heat Rejected to Exhaust System: kW (Btu/min)	35.8 (2036)	41.8 (2377)
Heat Rejected to Water & Lube Oil: kW (Btu/min)	30.6 (1740)	33.1 (1882)
Heat Radiation to Room: kW (Btu/min)	14.0 (796)	15.3 (870)
Exhaust Gas Temperature: °C (°F)	540 (1004)	553 (1027)
Radiator Cooling Air Flow: m ³ /min (cfm)	86.4 (3051)	105.6 (3729)
Cooling system designed to operate in ambient conditions up to 50°C (122°F)*		
Combustion Air Flow: m ³ /min (cfm)	2.8 (99)	3.4 (120)
Exhaust Gas Flow: m ³ /min (cfm)	7.7 (272)	9.6 (339)

* Contact your local FG Wilson dealer for power ratings at specific site conditions.

Dimensions and Weights

Length: mm (in)	Width: mm (in)	Height: mm (in)	Dry: kg (lb)	Wet: kg (lb)
2150 (84.6)	752 (29.6)	1366 (53.8)	874 (1927)	884 (1949)

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.



P45P3 / P50E3



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

