

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 pf

Ratings Definitions

Prime Power – Model P45P3

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

Technical Data

Engine Model:	Perkins 1103A-33TG1	
Alternator Model:	LL2014C	
Number of Cylinders:	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: 1/hr (USg/hr)	10.6 (2.8)	11.9 (3.1)
Fuel Consump, P50E3: 1/hr (USg/hr)	11.9 (3.1)	13.5 (3.6)
Heat Rejection to Exhaust System: kW (Btu/min)	35.8 (2036)	41.8 (2377)
Heat Rejection to Water & Lube Oil: kW (Btu/min)	30.6 (1740)	33.1 (1882)
Heat Radiated 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)
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)

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, ClassA2.

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

Generating set pictured may include optional accessories



YOUR PARTNER IN POWER

P45P3 – P50E3

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N. Ireland - UK

Made in UK

In line with our policy of continuous product development, we reserve the right to change specification without notice.



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