

## Output Ratings

Generating Set Model	P100P2	P110E2
380 – 415V, 50 Hz	100.0 kVA	110.0 kVA
	80.0 kW	88.0 kW
480V, 60 Hz	113.0 kVA	125.0 kVA
	90.4 kW	100.0 kW

Ratings at 0.8 pf

## Ratings Definitions

### Prime Power – Model P100P2

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 P110E2

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

<b>Engine Model:</b>	Perkins 1104C-44TAG2	
<b>Alternator Model:</b>	LL3014B	
<b>Number of Cylinders:</b>	4 / in line	
<b>Displacement: Litres (cu.in)</b>	4.4 (268.5)	
<b>Bore/Stroke: mm (in)</b>	105.0 (4.1) / 127.0 (5.0)	
<b>Compression ratio:</b>	18.3:1	
<b>Induction:</b>	Turbocharged	
<b>Frequency:</b>	<b>50 Hz</b>	<b>60 Hz</b>
<b>Engine Speed:</b>	1500 RPM	1800 RPM
<b>Gross Engine Power: kW (hp)</b>	103.0 (138.0)	117.5 (158.0)
<b>BMEP: kPA (psi)</b>	1873.0 (271.7)	1781.0 (258.3)
<b>Piston Speed: m/sec (ft/sec)</b>	6.4 (20.8)	7.6 (24.9)
<b>Fuel Tank Capacity: Litres (US Gal)</b>	227 (60.0)	227 (60.0)
<b>Fuel Consump, P100: 1/hr (USg/hr)</b>	21.9 (5.8)	26.3 (6.9)
<b>Fuel Consump, P110E: 1/hr (USg/hr)</b>	24.1 (6.4)	29.3 (7.7)
<b>Heat Rejected to Exhaust System: kW (Btu/min)</b>	78.9 (4487)	97.3 (5533)
<b>Heat Rejected to Water &amp; Lube Oil: kW (Btu/min)</b>	50.7 (2883)	62.5 (3554)
<b>Heat Radiated to Room: kW (Btu/min)</b>	7.5 (427)	9.2 (523)
<b>Exhaust Temperature: °C (°F)</b>	543 (1009)	574 (1065)
<b>Radiator Cooling Air Flow: m3/min (cfm)</b>	187.8 (6632)	244.2 (8624)
<b>Combustion Air Flow: m3/min (cfm)</b>	6.3 (221)	7.8 (275)
<b>Exhaust Gas Flow: m3/min (cfm)</b>	16.3 (576)	20.4 (720)

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)
2370 (93.3)	735 (28.9)	1381 (54.4)	1167 (2573)	1180 (2601)
Dry = With Lube Oil		Wet = With Lube Oil and Coolant		

Generating set pictured may include optional accessories

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



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# P100P2 – P110E2



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