

### Output Ratings

Generating Set Model	P90	P100E
380 – 415V, 50 Hz	90.0 kVA	100.0 kVA
	72.0 kW	80.0 kW
480V, 60 Hz	110.0 kVA	120.0 kVA
	88.0 kW	96.0 kW

Ratings at 0.8 pf

### Ratings Definitions

Prime Power – Model P90

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 P100E

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 Make &amp; Model:</b>	Perkins 1006TG1A	
<b>Alternator Model:</b>	LL3014B	
<b>Number of Cylinders:</b>	6 / In Line	
<b>Displacement:</b> Litres (cu.in)	6.0 (365.5)	
<b>Bore/Stroke:</b> mm (in)	100.0 (3.9)/127.0 (5.0)	
<b>Compression ratio:</b>	16.0:1	
<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:</b> kW (hp)	96.0 (129.0)	113.0 (152.0)
<b>BMEP:</b> kPA (psi)	1283.0 (186.1)	1259.0 (182.6)
<b>Piston Speed:</b> m/sec (ft/sec)	6.4 (20.8)	7.6 (25.0)
<b>Fuel Tank Capacity:</b> Litres (US Gal)	230 (60.8)	230 (60.8)
<b>Fuel Consump, P90:</b> 1/hr (USg/hr)	20.7 (5.5)	26.1 (6.9)
<b>Fuel Consump, P100E:</b> 1/hr (USg/hr)	23.1 (6.1)	28.3 (7.5)
<b>Heat Rejected to Exhaust System:</b> kW (Btu/min)	60.3 (3429)	88.2 (5016)
<b>Heat Rejected to Water &amp; Lube Oil:</b> kW (Btu/min)	61.4 (3492)	76.4 (4345)
<b>Heat Radiated to Room:</b> kW (Btu/min)	39.9 (2269)	39.7 (2258)
<b>Exhaust Gas Temperature:</b> °C (°F)	584 (1083)	569 (1057)
<b>Radiator Cooling Air Flow:</b> m <sup>3</sup> /min (cfm)	192.0 (6780)	244.0 (8617)
<b>Combustion Air Flow:</b> m <sup>3</sup> /min (cfm)	5.6 (198)	7.9 (279)
<b>Exhaust Gas Flow:</b> m <sup>3</sup> /min (cfm)	16.8 (593)	22.5 (795)

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)
2481 (97.7)	746 (29.4)	1435 (56.5)	1240 (2734)	1260 (2778)

Dry = With Lube Oil                      Wet = With Lube Oil and Coolant

Generating set pictured may include optional accessories



YOUR PARTNER IN POWER

## P90 / P100E

TEL./ FAX. : 0044 2893 355674

Website: www.marapco.com

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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