

### Output Ratings

Generating Set Model	P1500P3	P1650E3
380 - 415V, 50Hz	1500 kVA 1200 kW	1650 kVA 1320 kW

Ratings at 0.8 pf

### Ratings Definitions:

#### Prime Power – Model P1500P3

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 P1650E3

These ratings are applicable for supplying continuous electrical power (at variable load) in 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 ISO8528-3).

### Technical Data

Engine Model:	Perkins 4012-46TAG2A
Alternator Model:	LL8224N
Number of Cylinders:	12 Vee
Cubic Capacity: Litres (cu.in)	45.8 (2797.5)
Bore/Stroke: mm (in)	160.0 (6.30)/190.0 (7.5)
Compression ratio:	13.0:1
Aspiration:	Turbocharged, AA Charge Cooled
Frequency:	50 Hz
Engine Speed:	1500 RPM
Gross Engine Power: kW (hp)	1437 (1927)
BMEP: kPA (psi)	2508 (363.7)
Piston Speed: m/sec (ft/sec)	9.50 (31.2)
Fuel Consump, P1500P3: 1/hr (USg/hr)	296.6 (78.4)
Fuel Consump, P1650E3: 1/hr (USg/hr)	326.3 (86.2)
Heat Rejection to Exhaust System: kW (Btu/min)	1050 (59712)
Heat Rejection to Cooling System: kW (Btu/min)	485 (27581)
Total Radiated Heat: kW (Btu/min)	105 (5971)
Exhaust Temperature: °C (°F)	450 (842)
Radiator Cooling Air Flow: m3/min (cfm)	1212 (42801)
Combustion Air Flow: m3/min (cfm)	128 (4520)
Exhaust Gas Flow: m3/min (cfm)	315 (11124)

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)
5095 (200.6)	1900 (74.8)	2435 (95.9)	9720 (21429)	9910 (21848)

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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P1500P3 - P1650E3



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