

### Output Ratings

Generating Set Model	P1500	P1650E
380 – 415V, 50 Hz	1500 kVA 1200 kW	1650 kVA 1320 kW

Ratings at 0.8 pf

### Ratings Definitions

#### Prime Power – Model P1500

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 P1650E

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 4012TAG2A
Alternator Model:	LL8124P
Number of Cylinders:	12V
Cubic Capacity: Litres (cu.in)	45.8 (2798)
Bore/Stroke: mm (in)	160 (6.30) / 190 (7.50)
Compression ratio:	13.6:1
Aspiration:	Turbocharged
Frequency:	50 Hz
Engine Speed:	1500 RPM
Gross Engine Power: kW (hp)	1422 (1907)
BMEP: kPA (psi)	2481 (360)
Piston Speed: m/sec (ft/sec)	9.50 (31.2)
Fuel Consump, P1500: 1/hr (USg/hr)	307 (81.1)
Fuel Consump, P1650E: 1/hr (USg/hr)	343 (90.6)
Heat Rejection to Exhaust System: kW (Btu/min)	1013 (57608)
Heat Rejection to Cooling System: kW (Btu/min)	511 (29060)
Total Radiated Heat: kW (Btu/min)	167 (9497)
Exhaust Temperature: °C (°F)	483 (901)
<b>Radiator Cooling</b>	
Air Flow: m <sup>3</sup> /min (cfm)	1434 (50641)
Combustion Air Flow: m <sup>3</sup> /min (cfm)	110 (3885)
Exhaust Gas Flow: m <sup>3</sup> /min (cfm)	285 (10065)

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)
5185 (204)	2040 (80.3)	2230 (88.0)	10188 (22461)	10434 (23003)

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

Generating set pictured may include optional accessories



## P1500 – P1650E



**FG Wilson (Engineering) Ltd**  
 Old Glenarm Road, Larne, County Antrim BT40 1EJ  
 Northern Ireland, United Kingdom  
 Tel: +44 (0) 28 2826 1000 Fax: +44 (0) 28 2826 1111  
[www.FGWilson.com](http://www.FGWilson.com)

