

### Output Ratings

Generating Set Model	P500P1	P550E1
380 – 415V, 50 Hz	500 kVA 400 kW	550 kVA 440 kW

Ratings at 0.8 pf



### Ratings Definitions

#### Prime Power – Model P500P1

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 P550E1

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 2806C-E16TAG2
Alternator Model:	LL6014H
Number of Cylinders:	6 in-line
Cubic Capacity: Litres (cu.in)	15.8 (964.2)
Bore/Stroke: mm (in)	140 (5.5) / 171 (6.7)
Compression ratio:	15.9:1
Aspiration:	Turbocharged, AA Charge Cooled
Frequency:	50 Hz
Engine Speed:	1500
Gross Engine Power: kW (hp)	483 (648)
BMEP: kPA (psi)	2446 (354.8)
Piston Speed: m/sec (ft/sec)	8.55 (28.1)
Fuel Tank Capacity: Litres (US Gal)	863 (228)
Fuel Consump, P500P1: 1/hr (USg/hr)	107.9 (28.0)
Fuel Consump, P550E1: 1/hr (USg/hr)	118.2 (31.2)
Heat Rejection to Exhaust System: kW (Btu/min)	376 (21383)
Heat Rejection to Cooling System: kW (Btu/min)	176.9 (10060)
Total Radiated Heat: kW (Btu/min)	52.4 (2980)
Exhaust Temperature: °C (°F)	457.7 (856)
Radiator Cooling	
Air Flow: m <sup>3</sup> /min (cfm)	564 (19917)
Combustion Air Flow: m <sup>3</sup> /min (cfm)	36.9 (1303)
Exhaust Gas Flow: m <sup>3</sup> /min (cfm)	93.9 (3316)

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)
3828 (151)	1200 (47.2)	2175 (86)	3760 (8289)	3810 (8400)

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

Generating set pictured may include optional accessories

# P500P1 – P550E1



**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)

