

| Output Ratings | | |
|----------------------|-------------------|-------------------|
| Generating Set Model | P625P1 | P688E1 |
| 480V, 60 Hz | 625 kVA 500 kW | 688 kVA 550 kW |

Ratings at 0.8 pf

Ratings Definitions

Prime Power – Model P625P1

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 P688E1

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: | LL6014J |
| Number of Cylinders: | 6 in-line |
| Cubic Capacity: Litres (cu.in) | 15.8 (964) |
| Bore/Stroke: mm (in) | 140 (5.5) / 171 (6.7) |
| Compression ratio: | 15.9:1 |
| Aspiration: | Turbocharged, AA Charge Cooled |
| Frequency: | 60 Hz |
| Engine Speed: | 1800 RPM |
| Gross Engine Power: kW (hp) | 616 (826) |
| BMEP: kPA (psi) | 2600 (377) |
| Piston Speed: m/sec (ft/sec) | 10.26 (33.7) |
| Fuel Tank Capacity: Litres (US Gal) | 863 (228) |
| Fuel Consump, P625P1: 1/hr (USg/hr) | 131.4 (34.7) |
| Fuel Consump, P688E1: 1/hr (USg/hr) | 145.5 (38.4) |
| Heat Rejection to Exhaust System: kW (Btu/min) | 509.4 (28975) |
| Heat Rejection to Cooling System: kW (Btu/min) | 212.9 (12110) |
| Total Radiated Heat: kW (Btu/min) | 62.2 (3538) |
| Exhaust Temperature: °C (°F) | 461 (862) |
| Radiator Cooling Air Flow: m ³ /min (cfm) | 769 (27153) |
| Combustion Air Flow: m ³ /min (cfm) | 58.9 (1972) |
| Exhaust Gas Flow: m ³ /min (cfm) | 124 (4349) |

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 (150.7) | 1200 (47.2) | 2174 (85.6) | 3800 (8378) | 3850 (8488) |
| Dry = With Lube Oil | | Wet = With Lube Oil and Coolant | | |

Generating set pictured may include optional accessories



P625P1 – P688E1



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

