

| Output Ratings       |          |         |
|----------------------|----------|---------|
| Generating Set Model | P160H    | P175HE  |
| 380 – 415V, 50 Hz    | N/A      | 175 kVA |
|                      | N/A      | 140 kW  |
| 480V, 60 Hz          | 169 kVA  | 185 kVA |
|                      | 135.2 kW | 148 kW  |

Ratings at 0.8 pf

#### Ratings Definitions

##### Prime Power – Model P160H

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 P175HE

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 1306-E87TA215   |             |
| Alternator Model:                              | LL3014H                 |             |
| Number of Cylinders:                           | 6 in line               |             |
| Cubic Capacity: Litres (cu.in)                 | 8.70 (531)              |             |
| Bore/Stroke: mm (in)                           | 117 (4.60) / 136 (5.40) |             |
| Compression ratio:                             | 17.2:1                  |             |
| Aspiration:                                    | Turbocharged            |             |
| Frequency:                                     | 50 Hz                   | 60 Hz       |
| Engine Speed:                                  | 1500 RPM                | 1800 RPM    |
| Gross Engine Power: kW (hp)                    | 160 (215)               | 172 (230)   |
| BMEP: kPA (psi)                                | 1470 (213)              | 1313 (191)  |
| Piston Speed: m/sec (ft/sec)                   | 6.80 (22.3)             | 8.20 (26.9) |
| Fuel Tank Capacity: Litres (US Gal)            | 350 (92.5)              | 350 (92.5)  |
| Fuel Consump, P160H: 1/hr (USg/hr)             | N/A                     | 41.8 (11.0) |
| Fuel Consump, P175HE: 1/hr (USg/hr)            | 41.4 (10.9)             | 43.7 (11.5) |
| Heat Rejection to Exhaust System: kW (Btu/min) | 134 (7592)              | 134 (7706)  |
| Heat Rejection to Cooling System: kW (Btu/min) | 82.5 (4692)             | 88.5 (5033) |
| Total Radiated Heat: kW (Btu/min)              | 47.9 (2724)             | 52.0 (2957) |
| Exhaust Temperature: °C (°F)                   | 563 (1046)              | 407 (765)   |
| Radiator Cooling Air Flow: m³/min (cfm)        | 324 (11442)             | 414 (14620) |
| Combustion Air Flow: m³/min (cfm)              | 12.0 (424)              | 18.0 (636)  |
| Exhaust Gas Flow: m³/min (cfm)                 | 33.6 (1187)             | 43.0 (1519) |

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) |
|-----------------|----------------|-----------------|--------------|--------------|
| 2960 (117)      | 1003 (39.5)    | 1718 (68.0)     | 1865 (4112)  | 1902 (4193)  |

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

Generating set pictured may include optional accessories



## P160H – P175HE



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