

# PowerPro

## Volvo-engined Diesel Generating Sets



**VOLVO  
PENTA**

### General

**PowerPro** generating sets are skillfully designed monobloc units linking the technical capabilities of appropriately sized, world-renowned Volvo diesel engines with high performance, premium quality alternators. They provide a comprehensive range of machines offering long-life, efficiency and reliability. These units are recommended as prime power or stand-by sources for industrial, commercial and residential applications, suited to most ambient conditions likely to be encountered around the globe. All **PowerPro** generating sets benefit from the major component suppliers' international warranties and these are complemented by our full after-sales support and spares package.

### Engine

- Turbo-charged, watercooled, multi-cylinder direct-injection.
- Mechanical fixed speed, electronic or electronic engine management governing (as confirmed on technical data sheet).
- Replaceable elements for fuel, oil and air filters (where appropriate).
- Requiring only lubricating oil, coolant, inhibitor, battery acid and fuel for immediate start up.
- Manual start/stop operation, with heavy-duty dry-charged lead acid battery pack with connecting leads and charging system.
- Heavy-duty tropicalised radiator with fan and stone-guards.
- All sets include a daily-service fuel tank integral with the baseframe, complete with fill, vent and drain points, fuel feed and return lines and a contents gauge.
- All sets can also be supplied with free-standing tanks as an optional extra.

### Alternator and Control Panel

- Alternator of single bearing design close-coupled to the engine to provide accurate alignment.
- Brushless, self exciting, self regulating and solid state AVR controlled.
- Regulation under full load is maintained to +/- 1.5% depending upon AVR type.
- Enclosed in fabricated steel shell with drip-proof air ducts.
- Tropically insulated windings to class 'H', built in accordance with BS 5000, VDE 0530, IEC 34, UTE 5100 and NEMA MG1-22 regulations.
- Vibration-isolated alternator-mounted sheet-steel control panel containing the following instrumentation:
  - Microprocessor based generator control module with manual/auto facilities and a tactile key pad to allow scrolling through an LCD screen giving full AC and DC operational parameters and fault and status information. Module is J1939 enabled so can interface with engine electronic system where appropriate.
  - Fuses, terminations, relays and transformers as appropriate.
  - Output rated moulded-case three pole circuit breaker.

### Finish and Quality Control

An outstanding spray-painted finish for Volvo-engined gensets is achieved by using rust-inhibited high-gloss enamel paint, to a heavy-duty industrial specification, with the base-frame similarly treated in black.

Alternatively, clients may specify their own colour-scheme preferences.

Each set is custom-built, subject to comprehensive and rigorous inspection procedures prior to despatch and tested under full resistive load, with test certificates supplied on request.

Instruction manuals for both engine and alternator, together with wiring diagrams, heavy-duty compressed rubber anti-vibration mounts and a high-efficiency exhaust silencer system with flexible section are provided for each machine.

### Optional Extras

- Automatic mains-failure control systems
- Multi-set or mains synchronisation and load sharing controls
- Acoustic and weather-protecting enclosures
- ISO containerised sets
- Mobile trailer units
- Consumable and overhaul spares package

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# VOLVO **PowerPro** GENERATING SETS - 50HZ

## Technical Data

## Dimensions and Weights

| Model   | Engine    | kVA - Prime | kVA - Standby | Aspiration | Cylinders | Arrangement | Governing       | Fuel Consumption | L   | W   | H   | Kg   | CBM   |
|---------|-----------|-------------|---------------|------------|-----------|-------------|-----------------|------------------|-----|-----|-----|------|-------|
| PPV 84  | TAD530GE  | 84          | 87            | Turbo      | 4         | In-line     | Mechanical      | 19.1             | 210 | 75  | 165 | 1050 | 2.99  |
| PPV 125 | TAD532GE  | 125         | 131           | Turbo      | 6         | In-line     | Mechanical      | 28.4             | 235 | 75  | 175 | 1525 | 3.55  |
| PPV 150 | TAD731GE  | 150         | 156           | Turbo      | 6         | In-line     | Mechanical      | 30.9             | 240 | 90  | 175 | 1600 | 4.53  |
| PPV 180 | TAD732GE  | 180         | 182           | Turbo      | 6         | In-line     | Elec. Eng. Man. | 40.3             | 260 | 100 | 195 | 1880 | 5.61  |
| PPV 200 | TAD733GE  | 200         | 212           | Turbo      | 6         | In-line     | Elec. Eng. Man. | 45.3             | 260 | 100 | 195 | 1975 | 5.72  |
| PPV 250 | TAD734GE  | 250         | 260           | Turbo      | 6         | In-line     | Elec. Eng. Man. | 52.2             | 280 | 110 | 195 | 2250 | 7.15  |
| PPV 300 | TAD1341GE | 300         | 320           | Turbo      | 6         | In-line     | Elec. Eng. Man. | 62.0             | 300 | 110 | 200 | 2695 | 7.59  |
| PPV 350 | TAD1342GE | 350         | 375           | Turbo      | 6         | In-line     | Elec. Eng. Man. | 66.3             | 300 | 115 | 205 | 2735 | 8.13  |
| PPV 370 | TAD1343GE | 370         | 390           | Turbo      | 6         | In-line     | Elec. Eng. Man. | 76.2             | 300 | 115 | 205 | 2870 | 8.54  |
| PPV 400 | TAD1344GE | 400         | 425           | Turbo      | 6         | In-line     | Elec. Eng. Man. | 83.0             | 315 | 115 | 205 | 3170 | 8.54  |
| PPV 450 | TAD1345GE | 450         | 470           | Turbo      | 6         | In-line     | Elec. Eng. Man. | 91.0             | 315 | 130 | 215 | 3475 | 10.61 |
| PPV 500 | TAD1641GE | 500         | 515           | Turbo      | 6         | In-line     | Elec. Eng. Man. | 101.0            | 350 | 130 | 215 | 3800 | 10.61 |
| PPV 570 | TAD1642GE | 570         | 620           | Turbo      | 6         | In-line     | Elec. Eng. Man. | 116.0            | 370 | 130 | 215 | 3850 | 10.61 |
| PPV 630 | TWD1643GE | 630         | 680           | Turbo      | 6         | In-line     | Elec. Eng. Man. | 126.0            | 345 | 145 | 220 | 4170 | 12.66 |

### Notes:-

- All figures based on power factor of 0.8, engine manufacturers data at NTP and use of Newage alternators with output voltage of 400V
  - All dimensions and weights are approximate in cm's and kg's and CBM figures reflect an approximate packed volume.
  - Fuel consumption is based upon litres/hr @ 100% load assuming fuel meets standards laid down in ASTM-D2
  - Addition of options may change performance and dimension details shown above
  - Prime rating allows continuous operation with a 10% overload for any one hour in twelve.
- Standby is a continuous rating with no overload capacity and an annual limitation as to usage at full load.
- All data is given in good faith but is subject to change based upon our technical improvements or those notified by the major component suppliers

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