



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.
- Key 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:
 - Start/stop key switch with shutdown and status indicators.
 - AC ammeters, voltmeter and selector switch.
 - Dual-scale Frequency/RPM meter and Hours-run counter
 - Gauges for Oil pressure, Engine temperature and battery voltmeter.
 - 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 - 60HZ

Technical Data

Dimensions and Weights

Model	Engine	kVA - Prime	kVA - Standby	Aspiration	Cylinders	Arrangement	Governing	Fuel Consumption	L	W	H	Kg	CBM
PPV 84	TD530GE	87	95	Turbo	4	In-line	Mechanical	21.0	210	75	160	1050	2.90
PPV 100	TAD531GE	103	110	Turbo	4	In-line	Mechanical	24.6	220	90	160	1200	3.65
PPV 128	TD532GE	130	142	Turbo	6	In-line	Mechanical	31.0	235	90	160	1455	3.90
PPV 150	TAD731GE	160	175	Turbo	6	In-line	Mechanical	36.0	240	90	160	1560	3.98
PPV 180	TAD732GE	200	220	Turbo	6	In-line	Elec. Eng. Man.	46.0	260	100	165	1880	4.94
PPV 200	TAD733GE	230	245	Turbo	6	In-line	Elec. Eng. Man.	51.7	260	100	165	1975	4.94
PPV 250	TAD734GE	250	275	Turbo	6	In-line	Elec. Eng. Man.	57.4	280	100	170	2205	5.48
PPV 275	TAD940GE	280	305	Turbo	6	In-line	Elec. Eng. Man.	65.6	300	110	175	2245	6.64
PPV 300	TAD941GE	340	370	Turbo	6	In-line	Elec. Eng. Man.	78.3	300	110	175	2435	6.64
PPV 350	TAD1240GE	350	380	Turbo	6	In-line	Elec. Eng. Man.	76.5	300	110	185	2865	7.02
PPV 370	TAD1241GE	400	440	Turbo	6	In-line	Elec. Eng. Man.	88.0	300	110	185	2865	7.02
PPV 400	TAD1242GE	450	495	Turbo	6	In-line	Elec. Eng. Man.	100.5	315	110	185	3300	7.37
PPV 450	TAD1640GE	500	533	Turbo	6	In-line	Elec. Eng. Man.	107.0	315	110	195	3700	7.77
PPV 500	TAD1641GE	575	625	Turbo	6	In-line	Elec. Eng. Man.	123.6	350	125	195	3800	9.82
PPV 570	TAD1642GE	620	669	Turbo	6	In-line	Elec. Eng. Man.	137.0	370	130	180	3850	9.96
PPV 630	TWD1643GE	685	734	Turbo	6	In-line	Elec. Eng. Man.	140.6	345	145	220	4030	12.66

Notes:-

- a) All figures based on power factor of 0.8, engine manufacturers data at NTP and use of Newage alternators with output voltage of either 440 or 220V, 3ph
Other voltages are available BUT ratings will vary according to windings possibility and alternator efficiency.
- b) All dimensions and weights are approximate in cm's and kg's and CBM figures reflect an approximate packed volume.
- c) Fuel consumption is based upon litres/hr @ 100% load assuming fuel meets standards laid down in ASTM-D2
- d) Addition of options may change performance and dimension details shown above
- e) 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.
- f) 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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