



General

PowerPro generating sets are skillfully designed monobloc units linking the technical capabilities of appropriately sized, world-renowned Deutz 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

- Naturally aspirated or turbo-charged, water or air-cooled, 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 for water-cooled range.
- All sets, except the TBD range, include a daily-service fuel tank integral with the base-frame, 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 or magnet exciting, self regulating and solid state AVR controlled.
- Regulation under full load is maintained to +/- 0.5 - 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 two or three pole circuit breaker according to output phases.

Finish and Quality Control

An outstanding spray-painted finish for Deutz-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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DEUTZ **PowerPro** GENERATING SETS - 50HZ

Technical Data

Dimensions and Weights

Model	Engine	kVA - Prime	kVA - Standby	Cooling	Aspiration	Cylinders	Arrangement	Governing	Fuel Consumption	L	W	H	Kg	CBM
PPD 11	F2L2011	11	11	Oil	Natural	2	In-line	Mechanical	3.3	105	70	130	425	1.10
PPD 16	F3L2011	16	16	Oil	Natural	3	In-line	Mechanical	5.1	120	70	130	495	1.26
PPD 27	F4L2011	27	29	Oil	Natural	4	In-line	Mechanical	7.2	135	70	130	585	1.41
PPD 30	F3L912	30	32	Air	Natural	3	In-line	Mechanical	6.8	155	75	135	625	1.81
PPD 35	BF4L2011	35	38	Oil	Turbo	4	In-line	Mechanical	9.5	140	75	130	680	1.47
PPD 40	F4L912	40	42	Air	Natural	4	In-line	Mechanical	8.9	170	75	145	750	2.13
PPD 47	F4L914	47	50	Air	Natural	4	In-line	Mechanical	10.4	170	80	145	800	2.27
PPD 60	F6L912	60	61	Air	Natural	6	In-line	Mechanical	13.5	200	75	145	930	2.50
PPD 65	BF4L914	65	68	Air	Turbo	4	In-line	Mechanical	14.2	170	70	145	860	1.98
PPD 72	F6L914	72	77	Air	Natural	6	In-line	Mechanical	15.7	200	80	145	995	2.67
PPD 100/Air	BF6L913	100	106	Air	Turbo	6	In-line	Mechanical	24.3	205	85	155	1080	3.11
PPD 135/Air	BF6L913C	135	141	Air	Turbo	6	In-line	Mechanical	29.8	205	85	155	1095	3.11
PPD 40 / Wat	BF4M2011	40	42	Oil	Turbo	4	In-line	Mechanical	9.5	160	70	145	635	1.87
PPD 60 / Wat	BF4M2011C	60	61	Oil	Turbo	4	In-line	Mechanical	14.0	170	75	145	740	2.13
PPD 85	BF4M1013ECG1	85	87	Water	Turbo	4	In-line	Mechanical	19.4	205	75	155	1105	2.74
PPD 100/Wat	BF4M1013ECG2	100	106	Water	Turbo	4	In-line	Mechanical	21.6	205	75	165	1195	2.74
PPD 135/Wat	BF6M1013E	135	142	Water	Turbo	6	In-line	Mechanical	28.6	240	90	165	1400	4.10
PPD 160	BF6M1013EC	160	169	Water	Turbo	6	In-line	Mechanical	32.3	250	95	165	1545	4.51
PPD 175	BF6M1013FCP G2	175	182	Water	Turbo	6	In-line	Elec. Eng Man	43.8	260	100	175	1600	5.23
PPD 200	BF6M1013FCP G3	200	212	Water	Turbo	6	In-line	Elec. Eng Man	48.9	260	100	175	1650	5.23
PPD 230	BF6M1015	230	250	Water	Turbo	6	Vee	Elec. Eng Man	54.6	270	130	190	2395	7.67
PPD 300	BF6M1015C G1	300	320	Water	Turbo	6	Vee	Elec. Eng Man	68.6	285	130	190	2675	8.10
PPD 350	BF6M1015C G2	350	368	Water	Turbo	6	Vee	Elec. Eng Man	78.5	285	170	205	2795	11.42
PPD 430	BF8M1015C G1	430	465	Water	Turbo	8	Vee	Elec. Eng Man	91.9	310	170	215	3330	13.03
PPD 450	BF8M1015C G2	450	471	Water	Turbo	8	Vee	Elec. Eng Man	99.6	310	170	215	3375	13.03
PPD 500	BF8M1015CP G3	500	533	Water	Turbo	8	Vee	Elec. Eng Man	111.1	310	180	215	3495	13.80
PPD 750	TBD616V12	750	820	Water	Turbo	12	Vee	Electronic	153.1	490	210	210	5600	24.85
PPD 1000	TBD616V16	1000	1060	Water	Turbo	16	Vee	Electronic	213.5	540	275	230	7100	39.28
PPD 1580	TBD620V12	1580	1660	Water	Turbo	12	Vee	Electronic	313.4	700	275	300	12000	66.42
PPD 2000	TBD620V16	2000	2100	Water	Turbo	16	Vee	Electronic	419.8	750	275	300	14500	71.16

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
 - Models with radiators in excess of 2.2 metres high may require radiator to be dismantled to avoid height restrictions.
 - Prime rating allows continuous operation in line with ISO 8528.
- 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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