



Perkins-engined Diesel Generating Sets

General

PowerPro generating sets are skillfully designed monobloc units linking the technical capabilities of appropriately sized, world-renowned Perkins 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-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.
 - 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 for water-cooled range.
 - 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 two or three pole circuit breaker according to output phases.

Finish and Quality Control

An outstanding spray-painted finish for Perkins-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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PERKINS **PowerPro** GENERATING SETS - 50HZ

Perkins Peterborough Range from 7.5 - 180kVA

Technical Data

Dimensions and Weights

Model	Engine	kVA - Prime	kVA - Standby	Aspiration	Cylinders	Arrangement	Governing	Fuel Consumption	L	W	H	Kg	CBM
THREE PHASE UNITS													
PPP 8	403D-11G	7.5	7.5	Natural	3	In-line	Mechanical	2.6	125	56	125	398	1.01
PPP 12	403D-15G	12	12.5	Natural	3	In-line	Mechanical	3.7	125	56	125	445	1.01
PPP 17.5	404D-22G	17.5	17.5	Natural	4	In-line	Mechanical	4.7	130	56	125	505	1.05
PPP 20	404D-22G	20	20	Natural	4	In-line	Mechanical	5.4	130	56	125	515	1.05
PPP 27	1103A-33G	27	27.5	Natural	3	In-line	Mechanical	6.3	150	70	135	730	1.63
PPP 30	1103A-33G	30	30	Natural	3	In-line	Mechanical	7.1	150	70	135	735	1.63
PPP 40	1103A-33TG1	40	40	Turbo	3	In-line	Mechanical	9.5	155	70	135	770	1.69
PPP 45	1103A-33TG1	45	48	Turbo	3	In-line	Mechanical	10.7	155	70	135	830	1.69
PPP 60	1103A-33TG2	60	61	Turbo	3	In-line	Mechanical	14.1	155	70	135	870	1.69
PPP 65	1104A-44TG1	65	71	Turbo	4	In-line	Mechanical	14.8	180	70	145	945	2.10
PPP 80	1104C-44TAG1	80	87	Turbo	4	In-line	Mechanical	18.6	185	73	165	1075	2.57
PPP 94	1006-TG1A	94	103	Turbo	6	In-line	Mechanical	21.8	210	70	170	1125	2.88
PPP 100/44	1104C-44TAG2	100	106	Turbo	4	In-line	Mechanical	22.6	185	73	165	1100	2.57
PPP 100	1006-TG2A	100	106	Turbo	6	In-line	Mechanical	24.3	210	70	170	1175	2.88
PPP 140	1006-TAG	140	145	Turbo	6	In-line	Electronic	31.5	230	77	180	1265	3.67
PPP 150	1006-TAG2	150	160	Turbo	6	In-line	Electronic	41.0	230	77	180	1305	3.67
PPP 180	1106C-E66TAG4	180	192	Turbo	6	In-line	Electronic	40.2	250	82	180	1485	4.24
SINGLE PHASE UNITS													
PPP 8 / 1	403D-11G	7.5	7.5	Natural	3	In-line	Mechanical	2.6	127	56	125	410	1.03
PPP 12 / 1	403D-15G	11	12	Natural	3	In-line	Mechanical	3.7	127	56	125	470	1.03
PPP 20 / 1	404D-22G	16.5	16.5	Natural	4	In-line	Mechanical	5.4	127	56	125	555	1.03
PPP 27 / 1	1103A-33G	23	24	Natural	3	In-line	Mechanical	6.3	150	70	135	795	1.63
PPP 30 / 1	1103A-33G	28	29	Natural	3	In-line	Mechanical	7.1	150	70	135	850	1.63
PPP 40 / 1	1103A-33TG1	36	38	Turbo	3	In-line	Mechanical	9.5	155	70	135	860	1.69

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 single phase ratings assume voltage of 230V and are based upon reconnectable or dedicated wound machines - as per availability
 - 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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