



### 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

- Turbo-charged, watercooled, multi-cylinder direct-injection.
- 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 4000 series and above, 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 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 three pole circuit breaker.

### 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

## POWERSOURCE PROJECTS LIMITED

**Powersource Projects Limited** PowerPro House Capital Park Industrial Estate  
Combe Lane Wormley Surrey GU8 5TJ UK



**Telephone** (from UK): 0845 389 9333  
**Telephone** (from outside UK): +44 1428 684980  
**Email:** sales@power-source-pro.co.uk

**Fax Sales:** +44 (0)1428 687979  
**Fax Spares:** +44 (0)1428 687799  
**Web:** www.power-source-pro.co.uk

# PERKINS **PowerPro** GENERATING SETS - 60HZ

Perkins Peterborough Range from 8 - 180kVA

## Technical Data

## Dimensions and Weights

Model	Engine	kVA - Prime	kVA - Standby	Aspiration	Cylinders	Arrangement	Governing	Fuel Consumption	L	W	H	Kg	CBM
<b>THREE PHASE UNITS</b>													
PPP 8	403C-11G	10	10.2	Natural	3	In-line	Mechanical	3.3	125	56	125	398	1.01
PPP 12	403C-15G	14.5	15.5	Natural	3	In-line	Mechanical	4.3	125	56	125	445	1.01
PPP 20	404C-22G	22	24.5	Natural	4	In-line	Mechanical	6.4	130	56	125	515	1.05
PPP 22	1103A-33G	26	28	Natural	3	In-line	Mechanical	7.2	150	70	135	700	1.63
PPP 30	1103A-33G	33	35	Natural	3	In-line	Mechanical	8.6	150	70	135	735	1.63
PPP 45	1103A-33TG1	50	52	Turbo	3	In-line	Mechanical	12.9	155	70	135	830	1.69
PPP 60	1103A-33TG2	64	69	Turbo	3	In-line	Mechanical	15.7	155	70	135	870	1.69
PPP 65	1104A-44TG1	75	80	Turbo	4	In-line	Mechanical	17.7	180	70	145	945	2.10
PPP 80	1104A-44TG2	92	100	Turbo	4	In-line	Electronic	22.5	185	73	165	1075	2.57
PPP 94	1006-TG1A	108	118	Turbo	6	In-line	Mechanical	25.8	210	70	170	1125	2.88
PPP 100/44	1104C-44TAG2	112	123	Turbo	4	In-line	Electronic	26.9	185	73	165	1100	2.57
PPP 100	1006-TG2A	117	125	Turbo	6	In-line	Mechanical	28.9	210	70	170	1175	2.88
PPP 140	1006-TAG	152	163	Turbo	6	In-line	Electronic	37.6	230	77	180	1265	3.67
PPP 180	1106C-E66TAG4	200	220	Turbo	6	In-line	Electronic	41.3	250	82	180	1485	4.24
<b>SINGLE PHASE UNITS</b>													
PPP 8 / 1	403C-11G	8.5	8.5	Natural	3	In-line	Mechanical	3.3	127	56	125	410	1.03
PPP 12 / 1	403C-15G	13	14	Natural	3	In-line	Mechanical	4.3	127	56	125	470	1.03
PPP 20 / 1	404C-22G	18	18.7	Natural	4	In-line	Mechanical	6.4	127	56	125	555	1.03
PPP 27 / 1	1103A-33G	25	25	Natural	3	In-line	Mechanical	7.2	150	70	135	795	1.63
PPP 30 / 1	1103A-33G	30	31	Natural	3	In-line	Mechanical	8.6	150	70	135	850	1.63
PPP 40 / 1	1103A-33TG1	39	41	Turbo	3	In-line	Mechanical	12.9	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 either 440 or 220V, 3ph.
- All single phase ratings assume voltage of 220V 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

**DISTRIBUTED BY**