

TECHKNOL POWER GENERATION



Perkins Generating Set Range

General Description

This **TPG** range of Perkins generating sets has been born out of a new emergence by Perkins to provide the already accepted and well-known quality diesel engine with a wider and more global acceptance and a greater variety of applications. **TPG** have put together a comprehensive range of Perkins powered product combining the reliability and high performance of the water-cooled diesel range. The outputs available on this range span the key areas in the power generation requirement today on a global scale and **TPG** enhance the Perkins quality and reliability with their own professionally finished product.

Engine

Naturally aspirated or turbo-charged, water-cooled, multi-cylinder injection Perkins diesel engine with mechanical fixed speed governing (electronic governing is optional - standard on 1306 and 4000 series). All engines supplied with replaceable elements for oil, fuel and air-filter assemblies. An initial fill of high-quality, multi-grade engine oil is included together with a sump oil drain line fitted with an on/off valve.

Alternator

TPG utilise the modern technology of brushless self-exciting and self-regulating alternators. Typically, the alternators are built in accordance with BS 5000, VDE 0530, IEC 34, and NEMA regulations. We offer alternators to meet the full classification range and we adopt a technically preferred close-coupled arrangement.

Key Start Control Panel

A vibration-isolated sheet-steel panel mounted on the genset contains the following instrumentation:

- AC ammeters
- AC voltmeter and selector switch
- Frequency meter
- Oil pressure/engine temperature/battery-charge gauges.
- Hours-run counter
- Deep Sea Electronics start/run/stop key switch module with LED indication for battery charge and indication with shutdown for low oil pressure, high engine temperature and overspeed.
- Fuses, terminations, relays and transformers as appropriate.
- Suitably rated moulded-case triple-pole circuit breaker.

Fuel Tank

All sets up to and including 2806C-E16TAG1/TAG2 have a daily-service diesel tank, constructed from welded steel plate, integral with the baseframe and fitted with fill, vent, feed and return lines and a contents gauge. For larger sets this arrangement is optional, and free-standing bulk fuel storage tanks can be supplied if required.

Finish & Quality Control

Manufacturers' instruction manuals for both engine and alternator, wiring diagrams, heavy-duty compressed rubber anti-vibration mounts and industrial exhaust silencer(s) with a one-metre flexible connector accompany each generator set on despatch.

All sets are spray-painted with a quality high-gloss finish, using enamel paint with rust inhibitors to a heavy industrial specification. The base plate is finished in black gloss. Consideration will be given to match clients' own colour scheme.

All **TPG** sets are custom-built in our own factory. Prior to despatch each machine is subjected to rigorous and comprehensive factory inspection procedures and tested under full load. Test certificates will be supplied on request.

Typical Optional Extras

- Automatic mains failure control systems
- Synchronising and load sharing
- Remote monitoring systems
- Acoustic/weather-protection enclosures
- ISO containerised sets
- Mobile trailer units
- CE Approval and Certification



POWER



TECH



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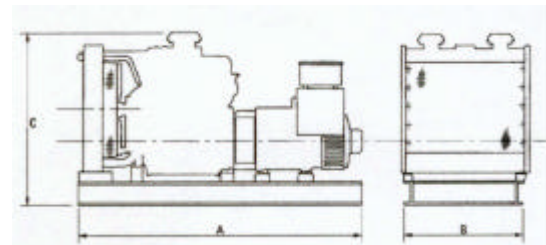
Generating Sets - Perkins Engine Range

GENSET - 50 Hz at 1500 RPM					ENGINE DETAILS						APPROXIMATE DIMENSIONS				
Model	PRIME kVA	kw	STANDBY kVA	kw	Model	Type Nat/asp or Turbo	No. of Cyls.	Arrange. of Cyls. Inline/Vee	Cubic Capacity ltrs	Fuel Cons. ltrs/h	Length (A) mm	Width (B) mm	Height (C) mm	Gross Weight Kg	Packed Volume m3
TPP10	10	8	11	8.8	403C-11G	Nat/asp	3	Inline	1.13	2.6	880	550	670	117	1.40
TPP13	13	10.4	14	11.2	403C-15G	Nat/asp	3	Inline	1.49	3.7	1100	720	670	259	1.60
TPP20	20	16	23	18.4	404C-22G	Nat/asp	4	Inline	2.2	5.4	1280	670	950	270	1.80
TPP30	30	24	33	26.4	1103A-33G	Nat/asp	3	Inline	3.3	7.1	1420	730	1240	630	2.06
TPP40	40	32	50	40	1103A-33TG1	Turbo	3	Inline	3.3	10.7	1820	730	1350	840	2.49
TPP60	60	48	66	52.8	1103A-33TG2	Turbo	3	Inline	3.3	13.9	1820	730	1350	875	2.51
TPP80	80	64	88	70.4	1104A-44TG2	Turbo	4	Inline	4.4	18.7	1830	740	1350	928	2.53
TPP95	95	76	105	84	1006TG1A	Turbo	6	Inline	5.99	21.8	2100	690	1450	1230	3.23
TPP100	100	80	115	92	1006TG2A	Turbo	6	Inline	5.99	24.3	2130	760	1450	1277	3.23
TPP135	135	108	145	116	1006TAG	Turbo	6	Inline	5.99	31.5	2300	790	1600	1427	4.28
TPP150	150	120	165	132	1006TAG2	Turbo	6	Inline	8.71	37	2450	950	1746	1565	5.49
TPP180	180	144	190	152	1106D-E66TAG4	Turbo	6	Inline	8.71	37.7	2450	950	1746	1565	5.49
TPP200	200	160	225	180	1306C-E87TAG3	Turbo	6	Inline	8.71	45.2	2600	856	1746	1565	5.49
TPP225	225	180	250	200	1306C-E87TAG4	Turbo	6	Inline	8.71	48.5	2600	856	1746	1565	5.49
TPP250	250	200	270	216	1306C-E87TAG6	Turbo	6	Inline	8.71	55	2970	900	1746	1565	5.49
TPP350	350	280	368	294.4	2306C-E14TAG2	Turbo	6	Inline	14.6	70.6	3100	860	1650	2590	6.19
TPP400	400	320	427	341.6	2306C-E14TAG3	Turbo	8	Inline	14.6	81.1	3300	1410	1920	3040	11.25
TPP450	450	360	533	426.4	2506C-15TAG1	Turbo	6	Inline	15.2	99	3250	1410	1880	3495	11.25
TPP500	500	400	550	440	2506C-15TAG2	Turbo	6	Inline	15.2	106	3250	1410	1880	3660	11.25
TPP600	600	480	605	484	2806C-E18TAG1	Turbo	8	Inline	15.8	97	3250	1410	1880	3495	11.25
TPP650	650	520	700	560	2806C-E18TAG2	Turbo	6	Inline	15.8	108	3250	1410	1880	3660	11.25
TPP730	730	584	800	640	4006-23TAG2	Turbo	6	Inline	22.92	149	3700	1410	1970	4555	13.23
TPP800	800	640	875	700	4006-23TAG3	Turbo	6	Inline	22.92	164	3700	1410	1970	4555	13.23
TPP840	840	672	935	748	4008TWG2	Turbo	8	Inline	30.56	183	5000	1870	2230	6975	25.49
TPP900	900	720	1000	800	4008TAG1	Turbo	8	Inline	30.56	194	5000	1870	2230	7505	25.49
TPP1000	1000	800	1130	904	4008TAG2	Turbo	8	Inline	30.56	238	5000	1870	2230	7625	25.49
TPP1250	1250	1000	1385	1108	4012TWG2	Turbo	12	Vee	45.84	267	5100	1900	2330	8450	26.54
TPP1365	1365	1092	1500	1200	4012TAG1	Turbo	12	Vee	45.84	267	5100	1900	2345	9360	27.62
TPP1500	1500	1200	1650	1320	4012TAG2	Turbo	12	Vee	45.84	276	5100	2050	2345	9795	29.65
TPP1750	1750	1400	1930	1544	4016TAG	Turbo	12	Vee	45.84	306	5100	2050	2345	10080	26.65
TPP2000	2000	1600	2134	1707.2	4016TAG2/2A	Turbo	16	Vee	61.12	362	5800	2295	2750	12635	43.29

* Engines subject to availability

ADDITIONAL INFORMATION

- All ratings are in accordance with ISO 8528-1 and ISO 3046, BS 5514 and DIN 6271 conditions
- All ratings are based on nominal 400/230V, 3ph, 50Hz
- Ratings are based on Perkins supplied test data under NTP ambient conditions
- Fuel consumption figures are based on 100% prime ratings in accordance with Perkins published data
- kVA figures are based on a power factor of 0.8
- The above engines fitted with an electronic management system will be supplied with a digital control panel only
- All sets up to and including 2506C-15TAG1/TAG2 have a daily-service diesel tank constructed from welded steel plate, integral with the base frame and fitted with fill, vent, feed and return lines and a contents gauge. For larger sets this arrangement is optional and freestanding bulk fuel storage tanks can be supplied if required.



The information given in this leaflet is correct at the time of printing to the best of our knowledge. It is to be used as a general guideline. TPG reserve the right to amend details and specifications without notice in line with our policy of continuous product development.

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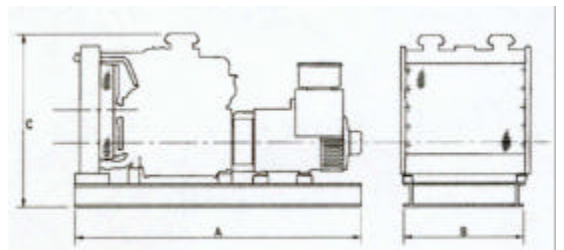
Generating Sets - Perkins Engine Range

GENSET - 60 Hz at 1800 RPM					ENGINE DETAILS						APPROXIMATE DIMENSIONS				
Model	PRIME kVA	PRIME kW	STANDBY kVA	STANDBY kW	Model	Type Nat/asp or Turbo	No. of Cyls.	Arrange. of Cyls. Inline/Vee	Cubic Capacity ltrs	Fuel Cons. ltrs/h	Length (A) mm	Width (B) mm	Height (C) mm	Gross Weight Kg	Packed Volume m3
TPP10	12	9.6	12.0	9.6	403C-11G	Nat/asp	3	Inline	1.13	3.3	880	550	670	117	1.40
TPP13	16	12.8	17.0	13.6	403C-15G	Nat/asp	3	Inline	1.49	4.3	1100	720	670	259	1.60
TPP20	23	18.4	25.0	20	404C-22G	Nat/asp	4	Inline	2.20	6.4	1280	670	950	270	1.80
TPP30	34	27.2	38.0	30.4	1103A-33G	Nat/asp	3	Inline	3.30	8.6	1600	638	1240	630	2.06
TPP40	50	40	50.0	40	1103A-33TG1	Turbo	3	Inline	3.30	12.9	1800	648	1350	840	2.49
TPP60	70	56	73.0	58.4	1103A-33TG2	Turbo	3	Inline	3.30	16.6	1830	648	1350	928	2.53
TPP80	90	72	100.0	80	1104A-44TG2	Turbo	4	Inline	4.40	22.2	1900	655	1400	980	2.80
TPP95	110	88	120.0	96	1006TG1A	Turbo	6	Inline	5.99	26.0	2100	690	1450	1230	3.23
TPP100	122	97.6	135.0	108	1006TG2A	Turbo	6	Inline	8.71	29.0	2100	690	1450	1277	3.23
TPP135	152	121.6	168.0	134.4	1006TAG	Turbo	6	Inline	8.71	38.0	2300	790	1600	1427	4.28
TPP180	200	160	225.0	180	1106D-E66TAG4	Turbo	6	Inline	8.71	42.5	2600	856	1746	1565	5.49
TPP200	220	176	270.0	216	1306C-E87TAG3	Turbo	6	Inline	7.64	51.5	2600	856	1746	1565	5.49
TPP225	245	196	300.0	240	1306C-E87TAG4	Turbo	6	Inline	8.71	54.5	2600	856	1746	1565	5.49
TPP350	380	304	415.0	332	2306C-E14TAG2	Turbo	6	Inline	14.00	85.7	3100	860	1750	2810	6.53
TPP400	438	350.4	480.0	384	2306C-E14TAG3	Turbo	6	Inline	14.00	94.2	3250	1410	1880	3495	11.25
TPP450	550	440	625.0	500	2806C-E18TAG1	Turbo	6	Inline	16.00	117.0	3250	1410	1880	3660	11.25
TPP550	610	488	690.0	552	2806C-E18TAG2	Turbo	6	Inline	18.00	127.0	3600	1410	1960	4195	12.84
TPP660	660	528	#N/A	#N/A	2806C-E18TAG1	Turbo	6	Inline	23.00	189.0	3700	1410	1970	4555	13.23
TPP800	800	640	870.0	696	4006-23TAG3	Turbo	6	Inline	23.00	189.0	3700	1410	1970	4555	13.23
TPP850	845	676	930.0	744	4008TWG2	Turbo	8	Inline	30.56	195.0	5000	1870	2230	6975	25.49
TPP910	910	728	1005.0	804	4008TAG1	Turbo	8	Inline	30.56	214.0	5000	1870	2230	7505	25.49
TPP1000	1025	820	1125.0	900	4008TAG2	Turbo	8	Inline	30.56	244.0	5000	1870	2230	7625	25.49
TPP1250	1250	1000	1370.0	1096	4012TWG2	Turbo	12	Vee	45.84	287.0	5100	1790	2260	9040	25.25
TPP1320	1335	1068	1410.0	1128	4012TAG1	Turbo	12	Vee	30.56	310.0	5100	1790	2260	9040	25.25
TPP1500	1500	1200	1635.0	1308	4012TAG2	Turbo	12	Vee	45.84	353.0	5100	2050	2345	10080	29.65

* Engines subject to availability

ADDITIONAL INFORMATION

- All ratings are in accordance with ISO 8528-1 and ISO 3046, BS 5514 and DIN 6271 conditions
- All ratings are based on nominal 440/220V, 3ph, 60Hz
- Ratings are based on Perkins supplied test data under NTP ambient conditions
- Fuel consumption figures are based on 100% prime ratings in accordance with Perkins published data
- kVA figures are based on a power factor of 0.8
- The above engines fitted with an electronic management system will be supplied with a digital control panel only
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