Perkins®

Generating a better future



The heart of every great machine

The Power to generate... from Perkins

In today's power generation market Perkins leads the way. Through our commitment to continuous improvement and global partnerships, Perkins has formed a worldwide Class A accredited operation. An operation dedicated to meeting the challenges of the power generation industry, now and in the future.

Perkins means diesel and gas power to people in countries all around the world. Globally Perkins specialist engine solutions are trusted by more than 1000 leading original equipment manufacturers, including the foremost OEMs in the power generation industry.

Since 1932 Perkins has produced over 17 million engines of which nearly half are still in service today.

Our products are supported by a global network of distributors and dealers, These engine experts give our customers complete peace of mind knowing their engines are maintained to the highest standards - wherever they are located in the world.

Perkins produces more than 90,000 diesel and gas engines specifically for electrical power generation

Perkins means diesel and gas power to people in countries all around the world

Perkins product line stretches from 11.2 to 2500 kVA (9 to 2000 kWe) and thrives on the toughest tasks man demands of engines

Producing over 350,000 engines every year Perkins has unrivalled experience in delivering total customer satisfaction worldwide. By concentrating on the production of engines rather than complete machines, Perkins has developed the largest range of power solutions to meet the demands of a swiftly moving market.

For gen set applications Perkins has a comprehensive range of ElectropaK™ specifications complete and ready to run. Where combined heat and power (CHP) is needed, Perkins has a dedicated range of engines offering maximum fuel efficiency and minimal running costs. Every year Perkins produces more than 90,000 diesel and gas engines specifically for electrical power generation.

Power solutions for the power generation industry

From frozen wastelands to arid deserts, people rely on Perkins every day. Partners to the industry for over 75 years, Perkins' reputation for reliability and quality spans the globe.

People who depend on power place their trust in Perkins. In the world's leading financial centres, Perkins powered gen sets provide emergency standby power; in the heights of the Bavarian Alps they're a source of baseload power. For some, Perkins expertise brings affordable electricity to places national networks don't reach. For others, Perkins engines provide a cost effective alternative to the main power network. Whatever the application, from lighting construction sites to running welding sets or heating and powering hotels, Perkins has the solution.

As one of the world's largest suppliers of diesel and gas engines for power generation, Perkins understands the demands of the industry and is committed to exceeding them.

Perkins comprehensive product range offers cost effective power with minimised running costs and rapid payback periods. It also offers choice and flexibility, with specifications ranging from bare engines, through complete ElectropaK™, to engines for combined heat and power.

Perkins' dedication to the lifelong support of its customers - delivered through a global distributor and dealer network - ensures rapid access to technical support and parts.

The power choice of over 1,000 OEMs

Extended Service Contract (ESC)

Extended Service Contracts (ESC) protect you from the stress that unexpected repair work brings to your life by covering the costs of getting your engine up and running again. Unlike other extended warranties, Perkins Platinum ESC protects you against all component part failures.

Saving you from unexpected repair bills

Why buy an Extended Service Contract?

- No surprises - Total protection from unexpected repair costs (parts, labour and travel)
- Enjoy longer lasting product support from Perkins global network
- Genuine Perkins parts ensure continued engine performance
- Highly trained technicians carry out all repairs
- Transferable coverage should you sell your machine

Cost effective comprehensive coverage

- Flexible coverage provides the right level of protection for your Perkins Engine
- Total cost management system
- Coverage can be extended to 2 years/1,000 hours right up to 5 years/8,000 hours
- You can buy an ESC at anytime during standard warranty – even the last day!

Platinum coverage

- Complete protection against all defective part failures
- Covers labour and travel costs
- Free software upgrades

Gold coverage

- Safeguards you against almost all part failures
- Covers labour and travel costs

Purchased in minutes, protected for years

Protecting you from unexpected costs

If the worst happened, would you have the money available to cover the cost of an unexpected failure? With an ESC you wouldn't need to worry.

Supporting you every step of the way

Each Perkins Distributor has highly trained and experienced Perkins Product Support Service Technicians, equipped and available around the clock to get your engine running again with the minimum of downtime. Buying an ESC means you get all this for free. No hassles. No worries. Job done.

How do I purchase an Extended Service Contract?

Quickly and simply. Contact your local Perkins Distributor now, and they can provide you with a quote in minutes.You can locate your nearest Perkins Distributor by visiting www.perkins.com

What's not covered by an ESC?

- The costs of normal maintenance or regular servicing of your Perkins engine
- Any accessories or proprietary equipment not fitted by Perkins
- Costs for the repair/replacement of any machine component that has failed as a consequence of a Perkins engine failure

For full details of all exclusions please contact your local Perkins Distributor.

The complete range for all your power needs

The design features of Perkins engines ensure their suitability for all power generation applications of up to 2264 kVA in diesel power or 1008 kWe on gas.

Perkins has a comprehensive range from bare engine to complete ElectropaK specifications. For the ultimate in fuel efficiency, Perkins offers a dedicated family of engines for CHP installations.

Throughout Perkins engine range, exceptional performance, reliability, durability and longevity combine to produce minimum operating costs and rapid ‘payback’ periods.

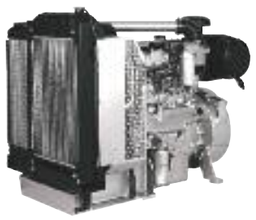
Exceptional performance, reliability, durability and longevity combine to produce minimum operating costs and rapid ‘payback’ periods

400 Series
11.2 to 39.3 kVA

- 1.1 to 2.2 litre
- In-line 3 and 4 cylinder
- Naturally aspirated

The 400 Series is a class-leading diesel range from Perkins - a significant evolution of the very successful compact engine family. Developed in conjunction with our customers, the 400 Series offers superior performance, with low emissions and low operating costs - all in a small efficient package.

1100 Series
30 to 228 kVA



- 3.3, 4.4 and 6.6 litres
- In-line 3, 4 and 6 cylinder
- Naturally aspirated
- Turbocharged
- Turbocharged charge-cooled

1100 Series is a multi-generational product designed to provide an optimum range of power solutions for both emissions controlled and non-regulated territories.

1000 Series
93 to 165 kVA

- 6.0 litre
- In-line 6 cylinder
- Turbocharged
- Turbocharged charge-cooled

Perkins advanced combustion technology makes this family of engines highly productive and fuel efficient. In addition, class leadership on the SAE maintainability index – a widely accepted means of comparing the serviceability of engines – and service intervals of up to 500 hours further minimise operating costs.

1300 Series
189 to 275 kVA

- 8.7 litre
- In-line 6 cylinder
- Turbocharged charge-cooled

The 1300 Series range features ‘full authority’ electronic engine management coupled with Hydraulically actuated Electronic controlled Unit Injectors to provide quiet, clean, highly competitive power, with outstanding economy. This range also has the proven reliability of premium design features such as roller cam followers and wet liners building in low cost of ownership.

2200 Series
350 to 500 kVA

- 13 litre
- In-line 6 cylinder
- Turbocharged charge-cooled

Developed on the base of a proven industrial engine, this 13 litre turbocharged and charge cooled unit provides economic and reliable power at key modes in the industry. All engines in the family meet the requirements of EPA/EC Stage 2 emissions standards and are capable of meeting 1⁄2 TA Luft (1986) NOx levels.

2500 Series
455 to 687 kVA

- 15 litre
- In-line 6 cylinder
- Turbocharged charge-cooled

The 2500 Series builds on the strengths of the already very successful 2000 Series family. Its premium features provide exceptional power-to-weight ratio resulting in exceptional fuel consumption. This engine offers power solutions to both emissions controlled and non-regulated territories.

2800 Series
591 to 750 kVA

- 18 litre
- In-line 6 cylinder
- Turbocharged charge-cooled

A well proven family of 6 cylinder in-line engines designed to address today’s uncompromising demands within the power generation industry, with particular focus on the standby sector. Developed from a proven heavy-duty industrial base, the 2800 Series offers superior performance and reliability in economic operation with low exhaust emissions.

4000 Series
585 to 2500 kVA

- 23 to 61 litre
- In-line 6 and 8 cylinder
- Vee 12 and 16 cylinder
- Turbocharged charge-cooled

A unique piston and cylinder design, incorporating an individually operated unit fuel injector, gives the Perkins 4000 Series ultra-low fuel consumption and emissions. The gas powered engines available in this range received the Queens Award for Environmental Achievement.

Gen Set Power Selector Chart

Model offering for Unregulated Territories

2010 Issue 2

50Hz

Model	Net Engine Output			Typical Generator Efficiency	Typical Power Factor	Typical Generating Set Output						1500/1800 rev/min switchable
						Baseload		Prime		Standby		
	Baseload kWm	Prime kWm	Standby kWm	%		kWe	kVA	kWe	kVA	kWe	kVA	
3000 rev/min (8.3 kVA to 36.4 kVA)												
402D-05G❖	*	7.7	8.5	86	0.8	*	*	6.6	8.3	7.3	9.1	
403D-07G❖	*	11.5	12.6	86	0.8	*	*	9.9	12.3	10.8	13.5	
403D-11G	*	16.5	18.1	86	0.8	*	*	14.2	17.7	15.6	19.5	
403D-15G	*	20.2	22.2	87	0.8	*	*	17.6	21.9	19.3	24.1	
404D-22G	*	29.7	32.7	89	0.8	*	*	26.5	33.1	29.1	36.4	
1500 rev/min (9 kVA to 2500 kVA)												
403D-11G	*	8.4	9.2	86	0.8	*	*	7.2	9.0	7.9	9.9	
403D-15G	*	12.0	13.2	87	0.8	*	*	10.4	13.0	11.4	14.3	
404D-22G	*	18.4	20.3	88	0.8	*	*	16.2	20.3	17.8	22.3	
404D-22TG	*	24.3	26.7	90	0.8	*	*	21.8	27.3	24.0	30.0	■
1103A-33G	*	27.7	30.4	87	0.8	*	*	24.0	30.0	26.4	33.0	■
1103A-33TG1	*	41.3	45.6	87	0.8	*	*	36.0	45.0	39.7	49.6	■
1103A-33TG2	*	53.8	59.3	89	0.8	*	*	48.0	60.0	52.8	66.0	■
1104A-44TG1	*	58.4	64.3	89	0.8	*	*	52.0	65.0	57.2	71.5	■
1104A-44TG2	*	71.9	79.1	89	0.8	*	*	64.0	80.0	70.4	88.0	■
1104C-44TAG2	*	90.1	99.5	90	0.8	*	*	81.4	101.4	89.6	111.9	■
1006TG1A	*	83.0	91.5	90	0.8	*	*	74.5	93.0	82.5	103.0	
1006TG2A	*	91.0	100.0	90	0.8	*	*	82.0	102.5	90.0	112.5	
1006TAG	*	121.0	133.5	90	0.8	*	*	109.0	136.0	120.0	150.0	■
1006TAG2	*	129.3	143.0	93	0.8	*	*	120.0	150.0	132.0	165.0	
1106C-E66TAG4	*	158.4	175.5	93	0.8	*	*	147.3	184.1	163.2	204.0	■
1306C-E87TAG3	164	180	199	92	0.8	151	189	166	208	183	229	■
1306C-E87TAG4	179	198	217	92	0.8	165	205	182	228	200	250	■
1306C-E87TAG5	185	204	224	92	0.8	170	213	188	235	206	258	
1306C-E87TAG6	198	217	239	92	0.8	182	228	200	250	220	275	
2206A-E13TAG2	*	305	349	92	0.8	*	*	280	350	320	400	■
2206A-E13TAG3	*	349	392	92	0.8	*	*	320	400	360	450	■
2506A-E15TAG1	*	396	434	92	0.8	*	*	364	455	400	500	■
2506A-E15TAG2	*	435	478	92	0.8	*	*	400	500	440	550	■
2806A-E18TAG1A	*	522	574	92	0.8	*	*	480	600	528	660	■
2806A-E18TAG2	*	565	609	92	0.8	*	*	520	650	560	700	■
4006-23TAG2A	505	632	695	95	0.8	480	600	600	750	660	825	
4006-23TAG3A	540	679	760	94	0.8	512	640	640	800	720	900	
4008TWG2	560	710	782	95	0.8	532	665	675	843	743	929	
4008TAG	566	715	787	95	0.6	538	672	679	849	748	935	
4008TAG1A	606	767	844	95	0.8	576	720	728	911	802	1002	
4008TAG2A	681	861	947	95	0.8	647	809	818	1022	900	1125	
4012-46TAG0A	842	1053	1158	95	0.8	800	1000	1000	1250	1100	1375	
4012-46TWG2A	833	1055	1166	95	0.8	791	989	1002	1253	1108	1385	
4012-46TWG3A	909	1149	1263	95	0.8	864	1079	1092	1364	1200	1500	
4012-46TAG1A	909	1148	1263	95	0.8	864	1080	1091	1364	1200	1500	
4012-46TWG4A	-	1254	1342	96	0.8	-	-	1200	1500	1280	1600	
4012-46TAG2A	1005	1267	1395	95	0.8	955	1194	1204	1505	1325	1656	
4012-46TAG3A	1200	1440	1583	95	0.8	1140	1425	1368	1710	1504	1880	
4016-61TRG1❖	1178	1558	1684	96	0.8	1120	1400	1480	1850	1600	2000	
4016TAG1A	1219	1537	1690	96	0.8	1170	1463	1476	1844	1622	2028	
4016-61TRG2❖	1347	1684	1894	96	0.8	1280	1600	1600	2000	1800	2250	
4016TAG2A	1362	1715	1886	96	0.8	1307	1634	1646	2058	1811	2263	
4016-61TRG3❖	1500	1875	2083	96	0.8	1440	1800	1800	2250	2000	2500	
Gas Power 1500 rev/min (307 kWe to 1000 kWe)												
4006-23TRS1†	322	-	-	95.4	1	307	307	-	-	-	-	
4006-23TRS2†	393	-	-	95.4	1	375	375	-	-	-	-	
4008-30TRS1†	447	-	-	95	1	425	425	-	-	-	-	
4008-30TRS2†	526	-	-	95	1	500	500	-	-	-	-	
4012TESI†	632	-	-	95	1	600	600	-	-	-	-	
4016-61TRS1†	912	-	-	96	1	875	-	-	-	-	-	
4016-61TRS2†	1042	-	-	96	1	1000	-	-	-	-	-	

*Available on application † Gross power

■ Switchable engines must be requested at point of order, please consult with your local Perkins representative.

❖ Available as Electro Unit only

Notes:

- All ratings are for guidance only, please refer to the specific engine technical data sheet for final powers.
- Perkins conditions of sale apply.
- Electrical output is based on typical generator efficiency and is for guidance only.
- All ratings data based on operation under ISO 8528-1, ISO 3046, DIN6271 conditions using typical fan sizes and drive ratios. Performance tolerance quoted by Perkins is ± 5%.
- **Baseload Power** = Power available for continuous full load operation. An overload of 10% permitted for one hour in every twelve hours of operation. **Please Note: No overload is permitted on 4000 Series.**
- **Prime Power** = Power available at variable load in lieu of main power network (please refer to the engine Technical Data Sheets for engine load factors). An overload of 10% permitted for one hour in every twelve hours of operation.
- **Standby Power** = Power available at a variable load in the event of a main power network failure up to a maximum of 500 hours per year. No overload is permitted.

Gen Set Power Selector Chart

Model offering for Unregulated Territories

2010 Issue 2

60Hz

Model	Net Engine Output			Typical Generator Efficiency	Typical Power Factor	Typical Generating Set Output						1500/1800 rev/min switchable
						Baseload		Prime		Standby		
	Baseload kWm	Prime kWm	Standby kWm	%		kWe	kVA	kWe	kVA	kWe	kVA	
1800 rev/min (3.9 kWe to 1504 kWe)												
402D-05G❖	*	4.5	5.0	86	0.8	*	*	3.9	4.9	4.3	5.3	
403D-07G❖	*	6.6	7.3	86	0.8	*	*	5.7	7.1	6.3	7.8	
403D-11G	*	10.4	11.4	87	0.8	*	*	9.0	11.3	9.9	12.4	
403D-15G	*	14.4	15.8	88	0.8	*	*	12.6	15.8	13.9	17.4	■
404D-22G	*	21.7	23.9	89	0.8	*	*	19.3	24.2	21.3	26.6	■
404D-22TG	*	28.8	31.7	89	0.8	*	*	25.6	32.1	28.2	35.3	■
404D-22TAG	*	31.5	34.7	90	0.8	*	*	28.4	35.5	31.2	39.0	
1103A-33G	*	32.2	35.4	87	0.8	*	*	27.9	34.9	30.6	38.2	■
1103A-33TG1	*	48.8	53.9	87	0.8	*	*	42.5	53.1	46.9	58.7	■
1103A-33TG2	*	61.2	66.4	89	0.8	*	*	54.5	68.1	60.1	75.1	■
1104A-44TG1	*	68.6	75.5	89	0.8	*	*	60.8	76.0	66.9	83.6	■
1104A-44TG2	*	82.0	90.2	89	0.8	*	*	73.0	91.3	80.3	100.3	■
1006TG1A	*	96.5	106.5	90	0.8	*	*	87.0	109.0	96.0	120.0	
1006TG2A	*	107.0	118.0	90	0.8	*	*	96.5	120.5	106.0	132.5	
1006TAG	*	134.0	147.0	90	0.8	*	*	120.5	151.0	132.5	165.5	■
1106C-E66TAG2	*	138.4	155.3	92	0.8	*	*	127.3	159.2	142.9	178.6	■
1106C-E66TAG3	*	146.4	163.4	92	0.8	*	*	136.1	170.1	152.0	190.0	■
1106C-E66TAG4	*	177.3	196.3	92	0.8	*	*	164.9	206.1	182.6	228.2	■
1106D-E66TAG2	*	136.6	153.6	92	0.8	*	*	125.0	156.0	140.0	175.0	
1106D-E66TAG3	*	142.4	159.4	92	0.8	*	*	135.0	169.0	150.0	188.0	
1106D-E66TAG4	*	173.7	192.3	92	0.8	*	*	160.0	200.0	175.0	219.0	
1306C-E87TAG3	182	201	220	92	0.8	167	209	185	231	202	253	■
1306C-E87TAG4	194	213	235	92	0.8	178	223	196	245	216	270	■
2206A-E13TAG5	*	349	381	92	0.8	*	*	320	400	350	438	■
2206A-E13TAG6	*	381	435	92	0.8	*	*	350	438	400	500	■
2506A-E15TAG3	*	446	490	92	0.8	*	*	410	513	450	563	■
2506A-E15TAG4	*	495	543	92	0.8	*	*	455	569	500	624	■
2506C-E15TAG4#	-	-	597	92	0.8	-	-	-	-	550	687	
2806A-E18TAG1A	*	543	598	92	0.8	*	*	500	625	550	687	■
2806A-E18TAG3	*	592	652	92	0.8	*	*	545	681	600	750	■
4006-23TAG2A	511	638	702	94	0.8	480	600	600	750	660	825	
4008TWG2	534	684	756	95	0.8	507	634	650	812	718	898	
4008TAG	564	712	784	95	0.8	536	670	676	846	745	931	
4006-23TAG3A	570	715	795	95	0.8	540	675	675	844	750	938	
4008TAG1	584	744	821	95	0.8	555	694	707	884	780	975	
4008TAG2	659	838	924	95	0.8	626	783	796	995	878	1097	
4012-46TWG2A	833	1055	1166	95	0.8	791	989	1002	1253	1108	1385	
4012-46TWG3A	909	1149	1263	95	0.8	864	1079	1092	1364	1200	1500	
4012-46TAG1A	914	1153	1267	95	0.8	868	1085	1095	1369	1204	1505	
4012-46TWG4A	-	1254	1342	96	0.8	-	-	1200	1500	1280	1600	
4012-46TAG2A	1009	1272	1399	95	0.8	959	1199	1208	1510	1329	1669	
4012-46TAG3A	1200	1440	1583	95	0.8	1140	1425	1368	1710	1504	1880	
1200 rev/min (592 kWe to 1478 kWe)												
4008TAG1	491	623	686	95	0.8	466	583	592	740	652	815	
4008TAG2	547	693	763	95	0.8	520	650	658	823	725	906	
4016TAG	908	1146	1263	96	0.8	872	1091	1100	1375	1212	1515	
4016TAG2	1108	1400	1540	96	0.8	1063	1329	1344	1680	1478	1848	
Gas Power 1200 rev/min (576 kWe)												
4012TESI†	600	-	-	96	1	576	576	-	-	-	-	

*Available on application † Gross power # Emergency Standby Power only

■ Switchable engines must be requested at point of order, please consult with your local Perkins representative

❖ Available as Electro Unit only

Notes:

- All ratings are for guidance only, please refer to the specific engine technical data sheet for final powers.
- Perkins conditions of sale apply.
- Electrical output is based on typical generator efficiency and is for guidance only.
- All ratings data based on operation under ISO 8528-1, ISO 3046, DIN6271 conditions using typical fan sizes and drive ratios. Performance tolerance quoted by Perkins is ± 5%.
- **Baseload Power** = Power available for continuous full load operation. An overload of 10% permitted for one hour in every twelve hours of operation. **Please Note: No overload is permitted on 4000 Series.**
- **Prime Power** = Power available at variable load in lieu of main power network (please refer to the engine Technical Data Sheet for engine load factors). An overload of 10% permitted for one hour in every twelve hours of operation.
- **Standby Power** = Power available at a variable load in the event of a main power network failure up to a maximum of 500 hours per year. No overload is permitted.
- **Emergency Standby Power** = Power available in the event of a main power network failure, up to maximum of 200 hours per year which may be run continuously. Load factor may be up to 70% of the Emergency Standby Power rating. No overload is permitted.

Gen Set Power Selector Chart

EU2007 97/68/EC Certified Models

2010 Issue 2

50Hz Model	EU Emissions Level	Net Engine Output			Typical Generator Efficiency	Typical Power Factor	Typical Generating Set Output						1500/1800 rev/min switchable
							Baseload		Prime		Standby		
		Baseload kWm	Prime kWm	Standby kWm	%		kWe	kVA	kWe	kVA	kWe	kVA	
3000 rev/min (21.9 kVA to 36.4 kVA)													
403D-15G	Stage 2	*	20.2	22.2	87	0.8	*	*	17.6	21.9	19.3	24.1	
404D-22G	Stage 2	*	29.7	32.7	89	0.8	*	*	26.5	33.1	29.1	36.4	
1500 rev/min (20.3 kVA to 650 kVA)													
404D-22G	Stage 2	*	18.4	20.3	88	0.8	*	*	16.2	20.3	17.8	22.3	
404D-22TG	Stage 2	*	24.3	26.7	90	0.8	*	*	21.8	27.3	24.0	30.0	■
1103C-33G2	Stage 2	*	27.3	30.4	90	0.8	*	*	24.6	30.7	27.4	34.2	■
1103C-33G3	Stage 2	*	27.3	30.4	90	0.8	*	*	24.6	30.7	27.4	34.2	
1103C-33TG2	Stage 2	*	40.9	45.6	90	0.8	*	*	36.8	46.0	41.0	51.3	■
1103C-33TG3	Stage 2	*	40.9	45.6	90	0.8	*	*	36.8	46.0	41.0	51.3	
1104C-44TG2	Stage 2	*	53.7	59.3	90	0.8	*	*	48.3	60.4	53.4	66.7	■
1104C-44TG3	Stage 2	*	53.7	59.3	90	0.8	*	*	48.3	60.4	53.4	66.7	
1104C-44TAG1	Stage 2	*	71.5	79.0	90	0.8	*	*	64.4	80.4	71.1	88.8	■
1104C-44TAG2	Stage 2	*	90.1	99.5	90	0.8	*	*	81.4	101.4	89.6	111.9	■
1106C-E66TAG2	Stage 2	*	119.5	133.0	92	0.8	*	*	109.9	137.4	122.4	152.9	■
1106C-E66TAG3	Stage 2	*	129.0	143.5	93	0.8	*	*	120.0	150.0	133.4	166.8	■
1106C-E66TAG4	Stage 2	*	158.4	175.5	93	0.8	*	*	147.3	184.1	163.2	204.0	■
1306C-E87TAG3	Stage 2	164	180	199	92	0.8	151	189	166	208	183	229	■
1306C-E87TAG4	Stage 2	179	198	217	92	0.8	165	205	182	228	200	250	■
1306C-E87TAG5	Stage 2	185	204	224	92	0.8	170	213	188	235	206	258	
1306C-E87TAG6	Stage 2	198	217	239	92	0.8	182	228	200	250	220	275	
2206C-E13TAG2	Stage 2	*	305	349	92	0.8	*	*	280	350	320	400	■
2206C-E13TAG3	Stage 2	*	349	392	92	0.8	*	*	320	400	360	450	■
2506C-E15TAG1	Stage 2	*	396	435	92	0.8	*	*	364	455	400	500	■
2506C-E15TAG2	Stage 2	*	435	478	92	0.8	*	*	400	500	440	550	■
2806C-E18TAG1A	Stage 2	*	514	565	92	0.8	*	*	473	591	520	650	■

*Available on application

■ Switchable engines must be requested at point of order, please consult with your local Perkins representative.

Notes:

– All ratings are for guidance only, please refer to the specific engine technical data sheet for final powers.
– Perkins conditions of sale apply.
– Electrical output is based on typical generator efficiency and is for guidance only.
– All ratings data based on operation under ISO 8528-1, ISO 3046, DIN6271 conditions using typical fan sizes and drive ratios. Performance tolerance quoted by Perkins is ± 5%.
– **Baseload Power** = Power available for continuous full load operation. An overload of 10% permitted for one hour in every twelve hours of operation.
– **Prime Power** = Power available at variable load in lieu of main power network (please refer to the engine Technical Data Sheets for engine load factors). An overload of 10% permitted for one hour in every twelve hours of operation.
– **Standby Power** = Power available at a variable load in the event of a main power network failure up to a maximum of 500 hours per year. No overload is permitted.

Gen Set Power Selector Chart

EPA 40 CFR Part 89 Certified Models

2010 Issue 2

60Hz Model	EPA Emissions Level	Net Engine Output			Typical Generator Efficiency	Typical Power Factor	Typical Generating Set Output						1500/1800 rev/min switchable
							Baseload		Prime		Standby		
		Baseload kWm	Prime kWm	Standby kWm	%		kWe	kVA	kWe	kVA	kWe	kVA	
1800 rev/min (3.9 kWe to 600 kWe)													
402D-05G❖	Tier 4	*	4.5	5.0	86	0.8	*	*	3.9	4.9	4.3	5.3	
403D-07G❖	Tier 4	*	6.6	7.3	86	0.8	*	*	5.7	7.1	6.3	7.8	
403D-11G	Tier 4	*	10.4	11.4	87	0.8	*	*	9.0	11.3	9.9	12.4	
403D-15G	Tier 4	*	14.4	15.8	88	0.8	*	*	12.6	15.8	13.9	17.4	■
404D-22G	Interim Tier 4	*	21.7	23.9	89	0.8	*	*	19.3	24.2	21.3	26.6	■
404D-22TG	Interim Tier 4	*	28.8	31.7	89	0.8	*	*	25.6	32.1	28.2	35.3	■
404D-22TAG	Interim Tier 4	*	31.5	34.7	90	0.8	*	*	28.4	35.5	31.2	39.0	
1104D-44TG1	Tier 3	*	57.0	63.0	90	0.8	*	*	51.3	64.1	56.7	70.9	
1104D-E44TG1	Tier 3	*	65.2	71.8	90	0.8	*	*	58.7	73.4	64.6	80.8	
1104D-E44TAG1	Tier 3	*	82.0	90.8	90	0.8	*	*	73.8	92.0	81.7	102.0	
1104D-E44TAG2	Tier 3	*	100.0	111.0	90	0.8	*	*	90.0	113.0	100.0	125.0	
1106D-E66TAG2	Tier 3	*	136.6	153.6	92	0.8	*	*	125.0	156.0	140.0	175.0	
1106D-E66TAG3	Tier 3	*	142.4	159.4	92	0.8	*	*	135.0	169.0	150.0	188.0	
1106D-E66TAG4	Tier 3	*	173.7	192.3	92	0.8	*	*	160.0	200.0	175.0	219.0	
2206D-E13TAG2	Tier 3	*	349	381	92	0.8	*	*	320	400	350	438	
2206D-E13TAG3	Tier 3	*	381	435	92	0.8	*	*	350	438	400	500	
2506D-E15TAG1	Tier 3	*	435	490	92	0.8	*	*	400	500	450	563	
2506C-E15TAG3	Tier 2	*	495	543	92	0.8	*	*	455	569	500	625	
2506C-E15TAG4#	Tier 2	-	-	597	92	0.8	-	-	-	-	550	687	
2806C-E18TAG3	Tier 2	*	592	652	92	0.8	*	*	545	681	600	750	■
3600 rev/min (7.6 kWe to 12.4 kWe)													
402D-05G❖	Tier 4	*	8.8	9.7	86	0.8	*	*	7.6	9.5	8.3	10.4	
403D-07G❖	Tier 4	*	13.1	14.4	86	0.8	*	*	11.3	14.1	12.4	15.5	

*Available on application # Emergency Standby Power only

■ Switchable engines must be requested at point of order, please consult with your local Perkins representative.

❖ Available as Electro Unit only

Notes:

– All ratings are for guidance only, please refer to the specific engine technical data sheet for final powers.
– Perkins conditions of sale apply.
– Electrical output is based on typical generator efficiency and is for guidance only.
– All ratings data based on operation under ISO 8528-1, ISO 3046, DIN6271 conditions using typical fan sizes and drive ratios. Performance tolerance quoted by Perkins is ± 5%.
– **Baseload Power** = Power available for continuous full load operation. An overload of 10% permitted for one hour in every twelve hours of operation.
– **Prime Power** = Power available at variable load in lieu of main power network (Please refer to the engine Technical Data Sheets for engine load factors). An overload of 10% permitted for one hour in every twelve hours of operation.
– **Standby Power** = Power available at a variable load in the event of a main power network failure up to a maximum of 500 hours per year. No overload is permitted.
– **Emergency Standby Power** = Power available in the event of a main power network failure, up to maximum of 200 hours per year which may be run continuously. Load factor may be up to 70% of the Emergency Standby Power rating. No overload is permitted.

Product Support Excellence

In the modern, global marketplace, Perkins recognises it is not enough to be a manufacturing company with a quality product. It is also about creating relationships and building trust, and getting to know the specific needs of our customers.

Our customers expect quick, proactive responses to their requirements. Perkins understands that these requirements are different, according to each specific customer. Product Support Excellence is a key element in delivering a consistent, high quality response and a fundamental part of the total Perkins power solution.

Our global network is the strength and presence of Perkins Product Support. It forms the foundation of the enduring, quality relationships we have with our customers and delivers the promise we have made.

Our product support promise to keep Perkins' engines running, wherever they are located in the world, is a reality. To ensure we keep this promise, our investment in the skills and training of our people is constant. Perkins Regional Training Centres set the high standards required of our engine experts to meet the challenges of new technology and the commitment of quality service to our customers.

Our Product Support Excellence has one purpose - to give our customers peace of mind that our engines will keep their equipment running. So, whatever the age or condition of a Perkins engine, wherever it is, and whether it needs standard maintenance, complete overhaul or comprehensive repair, we have the people with the expertise and tools to do the job - so our customers' equipment can do theirs.

The cornerstones of our Product Support Excellence are:

- Global Distributor/Dealer Network - our customers' portal to quality service and support
- Parts Distribution - genuine parts to extend engine life and performance
- Service Excellence - on-line information and tools; TIPSS (The Integrated Product Support Solution) - providing the very latest diagnostic and technical information
- Service Solutions - Power Exchange Components - a sustainable, cost effective, high quality service solution

Retaining our position as a market leader is proof that we listen to our customers and focus on their needs. It is this commitment that differentiates Perkins from our competitors and enables us to meet and exceed our customers expectations.

Global Network

Worldwide Service Support

Over 75 Years Experience

- 132 distributors
- 184 countries
- Technical support
- Warranty support

Parts Distribution

Global Parts Network

- Genuine Parts – designed specifically for your engine
- High availability – over 40,000 parts in stock
- On-line Parts information – ensures the correct part
- Direct Ship – next day delivery for most of Europe

Service Excellence

Distributor/Dealer Service Standards

- Product Training – skilled on the latest technology
- Required Tooling – electronic and speciality tools for fast, high quality repair
- Information Systems – on-line access for up to date technical data
- Parts in stock – critical parts on the shelf to minimise down time

Service Solutions

Lower Owning and Operating Cost

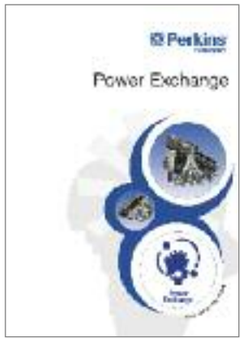
- Power Exchange Components – a sustainable solution
  - Remanufactured to like new specification
  - Typically 60 to 70% the price of a new component
- Extended Service Contracts – added protection for your engine

Product Support excellence is all about commitment to our customers; giving them the assurance that we understand their specific needs, and that our engines will keep their equipment running

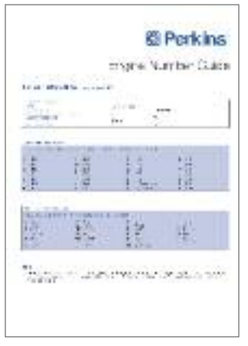
Related Literature

Publication No. PP1107

Publication No. PN1891

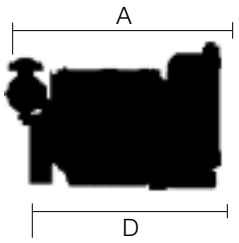


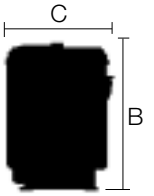
Publication No. PP1144

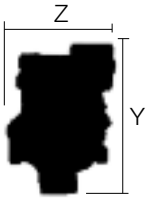


Publication No. PP827

Technical Specifications







Dimensions

DIESEL Model	Length (A)	Height (B)	Width (C)	Length (D)	ElectropaK Dry Weight (kg)
402D-05G					
403D-07G	480	528	371	-	71
403D-11G	776	700	449	-	129
403D-15G	820	791	476	-	197
404D-22G	915	840	477	-	242
404D-22TG	988	969	588	-	260
404D-22TAG	1073	997	700	-	300
1103A-33G	1029	951	629	912	412
1103A-33TG1/TG2	1049	951	634	928	420
1104A-44TG1/TG2	1241	951	629	1046	463
1103C-33G2/G3	1045	951	631	928	329
1103C-33TG2/TG3	1048.8	951	634	928	420
1104C-44TG2/TG3	1239	951	614.8	1045.7	401
1104D-44TG1	1238	967	637	-	474
1104C-44TAG1/TAG2	1259	966	721	1121	401
1006TG1A	1559	1124	709	1378	542
1006TG2A	1559	1124	709	1378	586
1006TAG	1685	1065	773	1450	586
1006TAG2	1685	1065	773	1450	586
1104D-E44TG1	1281	940	708	-	483
1104D-E44TAG1/TAG2	1357.7	1090.7	749.6	1067.7	465
1106C-E66TAG2/TAG3	1728.3	1140.4	779.8	1413.8	788
1106C-E66TAG4	1763.2	1140.4	788.3	1421	788
1106D-E66TAG2/TAG3	1728.3	1140.4	779.8	1413.8	788
1106D-E66TAG4	1763.2	1140.4	788.3	1421	788
1306C-E87TAG3/TAG4/TAG5/TAG6	1822	1369	875	1539	895
2206A-E13TAG2/TAG3/TAG5/TAG6	2410	1725	1120	-	1478
2206C-E13TAG2/TAG3	2410	1725	1120	-	1478
2206D-E13TAG2/TAG3	2410	1725	1120	-	1478
2306A-E14TAG2/TAG3	2422	1614	1107	2029	1690
2306C-E14TAG2/TAG3	2422	1614	1107	2029	1690
2506A-E15TAG1/TAG2/TAG3/TAG4	2657	1718	1120	-	1633
2506C-E15TAG1/TAG2/TAG3/TAG4	2657	1718	1120	-	1633
2506D-E15TAG1	2657	1718	1120	-	1633
2806A-E18TAG1A/TAG2/TAG3	2545	1807.5	1536	2050	2050
2806C-E18TAG1A/TAG3	2545	1807.5	1536	2050	2050
4006-23TAG2A/TAG3A	3027	1964	1706	2414	2524
4008TAG	3780	2193	1630	3129	3730
4008TAG1/TAG2	3935	2258	1870	3281	4360
4008TAG1A/TAG2A	3852	2067	2046	2921	4270
4008TWG2	2890	1772	1585	2201	3350
4012-46TAG1A/TAG2A/TAG3A	3971	2260	2192	3339	4400
4012-46TWG2A/TWG3A/TWG4A	3714	2255	1978	2930	5283
4016TWG2	4510	3149	2775	3872	8240
4016TAG1A/TAG2A	4460	3239	2775	3827	8010
4016TEG1/TEG2	3450	2115	1410	2812	6000
4016-61TRG/1/2/3	3302	1723	2128	-	5570

GAS Model	Length (X)	Height (Y)	Width (Z)	Engine Dry Weight
4006-23TRS1/TRS2	2242	1787	1633	1650
4008-30TRS1/TRS2	2658	1782	1633	3350
4012TESI	2650	1860	1895	4680
4016-61TRS1/TRS2	3192	1969	1737	5820

All dimensions are given in mm. All weights are given in kg. Data is approximate only. Perkins reserves the right to change without prior notice.

Emissions Regulations
Perkins can supply engines for power generation applications which satisfy the requirements of TA Luft, 1⁄2 TA Luft regulations and US EPA and EU off-highway legislation.
Please contact your local Perkins representative for information on specific engine ratings.

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