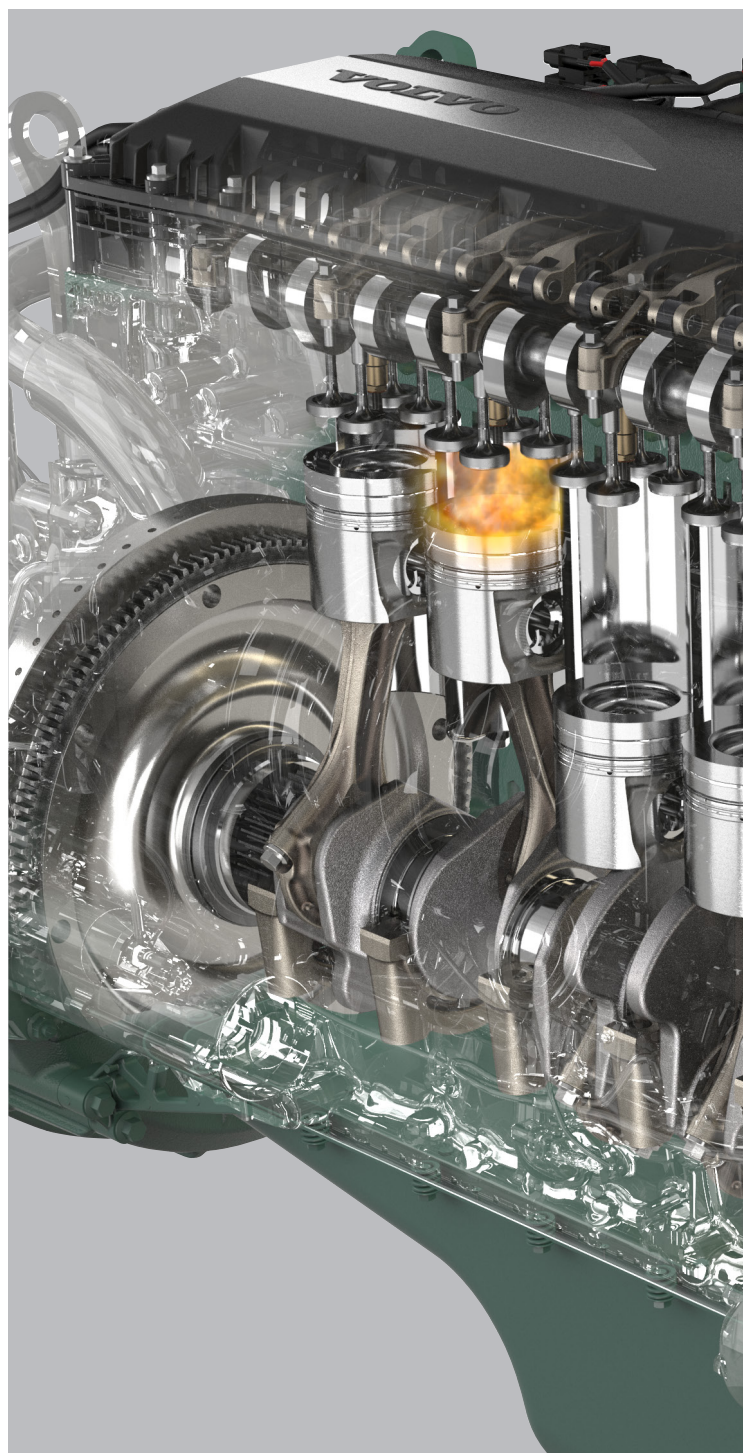


ENGINE RANGE

Industrial engines



**VOLVO
PENTA**

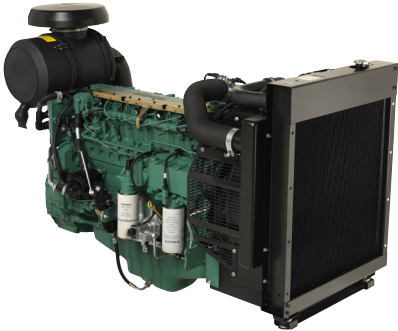
www.volvopenta.com

Power Generation

5 LITRE SERIES



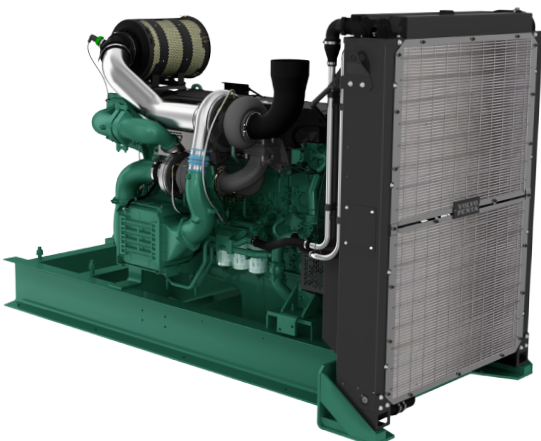
7 LITRE SERIES



13 LITRE SERIES



16 LITRE SERIES

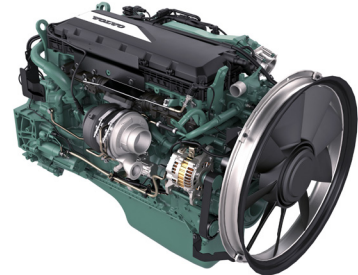


Off-road and stationary

5 LITRE SERIES



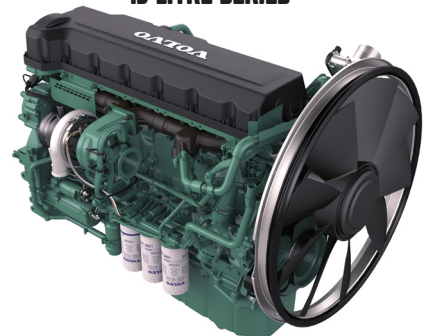
8 LITRE SERIES



11 LITRE SERIES



13 LITRE SERIES



16 LITRE SERIES



Power Generation Engines

Stage I / Tier 1*

Engine	50 Hz/1500 rpm						60 Hz/1800 rpm						GENERATOR EFF. (%)
	PRIME POWER			STANDBY			PRIME POWER			STANDBY			
	kWm	kWe	kVA	kWm	kWe	kVA	kWm	kWe	kVA	kWm	kWe	kVA	
TD520GE	75	68	85	83	75	94	77	70	88	85	77	96	91%

Stage II / Tier 2*

TAD530GE	75	68	85	83	76	95	76	69	86	85	77	97	91%
TAD531GE	88	81	101	97	89	112	91	84	105	100	92	115	92%
TAD532GE	113	104	130	125	115	144	114	105	131	126	116	145	92%
TAD730GE	113	104	130	125	115	144	114	105	131	126	116	145	92%
TAD731GE	134	123	154	148	136	170	139	128	160	153	141	176	92%
TAD732GE	159	146	183	176	162	202	173	159	199	192	177	221	92%
TAD733GE	176	164	205	194	180	226	192	179	223	213	198	248	93%
TAD734GE	219	204	255	241	224	280	223	207	259	247	230	287	93%
TAD1341GE	275	255	319	302	281	351	294	273	342	324	301	377	93%
TAD1342GE	303	282	352	333	310	387	345	321	401	377	351	438	93%
TAD1343GE	325	302	378	356	331	414	353	328	410	388	361	451	93%
TAD1344GE	354	329	411	389	362	452	392	364	455	431	401	501	93%
TAD1345GE	388	365	456	431	405	506	392	368	460	431	405	506	94%
TAD1640GE	392	368	460	431	405	506	430	404	505	479	450	563	94%
TAD1641GE	430	404	505	473	445	556	485	456	570	546	513	642	94%
TAD1642GE	503	473	591	554	521	651	532	500	625	585	550	687	94%
TWD1643GE	536	504	630	596	560	700	585	550	687	644	605	757	94%

Stage IIIA / Tier 3*

	50 Hz/1500 rpm						60 Hz/1800 rpm						
Engine	PRIME POWER			STANDBY			PRIME POWER			STANDBY			GENERATOR EFF. (%)
	kWm	kWe	kVA	kWm	kWe	kVA	kWm	kWe	kVA	kWm	kWe	kVA	
TAD550GE	76	69	86	84	76	96	85	77	97	94	86	107	91%
TAD551GE	89	82	102	98	90	113	100	92	115	110	101	127	92%
TAD750GE	113	104	130	127	117	146	125	115	144	141	130	162	92%
TAD751GE	132	121	152	146	134	168	148	136	170	164	151	189	92%
TAD752GE	158	145	182	174	160	200	177	163	204	196	180	225	92%
TAD753GE	175	163	203	194	180	226	197	183	229	218	203	253	93%
TAD754GE	219	204	255	242	225	281	222	206	258	245	228	285	93%
TAD1350GE							245	227	284	269	250	313	93%
TAD1351GE	279	259	324	306	285	356	294	273	341	323	300	375	93%
TAD1352GE	314	292	365	345	321	401	344	320	400	376	350	437	93%
TAD1353GE							391	364	454	430	400	500	93%
TAD1354GE	328	305	381	361	336	420	344	320	400	376	350	437	93%
TAD1355GE	355	334	417	390	367	458	344	323	404	376	353	442	94%
TAD1650GE	393	370	462	433	407	508	439	413	516	483	454	568	94%
TAD1651GE	430	404	505	473	445	556	494	464	580	546	513	641	94%
TWD1652GE	505	480	600	557	529	661							95%
TWD1653GE	547	520	650	604	574	717							95%

Tier 4i*

TWD1663GE	593	566	708	655	626	782	95,5%
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Tier 4f*

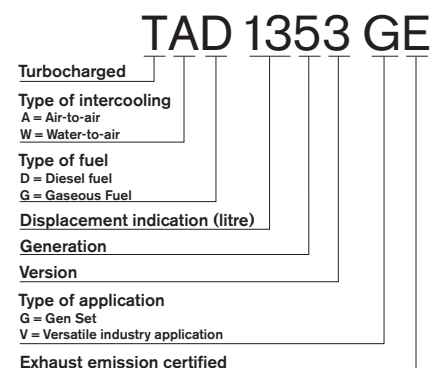
TWD1672GE	532	508	635	585	559	698	95,5%
TWD1673GE	595	570	713	655	625	781	95,5%

Stage I / Tier 1*

Engine	400 Hz / 2000 rpm						GENERATOR EFF. (%)
	kWm	kWe	kVA	kWm	kWe	kVA	
TD720GE	119	109	137	132	121	152	92%

Stage II / Tier 2*

TAD731GE	143	132	164	159	146	183	92%
TAD733GE	171	157	197	192	177	221	92%



* indication of emission standard.

Net engine performance acc. to ISO3046, BS5514, DIN6271
and in general SAEJ1349 net power

kWm = kiloWatt mechanical, net with fan

kWe = kiloWatt electrical = kWm × gen. eff.

kVA = kiloVoltAmpere calculations based on a 0.8 power factor = kWe / 0.8

Industrial Engines for Off-Road applications

Stage II / Tier 2*

Engine	MAXIMUM POWER			PEAK TORQUE		Displ. Litres	Length mm	Width mm	Height mm	Dry weight kg
	kW	Hp	rpm	Nm	rpm					
TAD540VE	105	143	2200	710	1400	5.1	982	864	982	511
TAD541VE	129	175	2200	810	1400	5.1	982	864	982	511
TAD542VE	160	218	2200	910	1450	5.1	982	864	982	511
TAD620VE	155	211	2500	700	1500	5.7	1050	610	906	510
TAD720VE	174	237	2300	854	1400	7.2	1172	630	975	680
TAD721VE	195	265	2300	907	1600	7.2	1172	630	975	680
TAD722VE	220	300	2300	1050	1400	7.2	1172	630	975	680
TAD840VE	160	218	2200	1060	1350	7.7	1207	889	1006	667
TAD841VE	185	252	2200	1160	1350	7.7	1207	889	1006	667
TAD842VE	210	286	2200	1237	1350	7.7	1207	889	1006	667
TAD843VE	235	320	2200	1310	1450	7.7	1207	889	1006	667
TAD1140VE	235	320	2100	1581	1260	10.8	1309	913	1227	1041
TAD1141VE	265	360	2100	1785	1260	10.8	1309	913	1227	1041
TAD1142VE	285	388	1700	1938	1260	10.8	1309	913	1227	1041
TAD1340VE	256	348	2100	1790	1260	12.8	1373	870	1207	1267
TAD1341VE	275	374	2100	1883	1260	12.8	1373	870	1207	1267
TAD1342VE	310	422	2100	2000	1260	12.8	1373	870	1207	1267
TAD1343VE	332	452	2100	2119	1260	12.8	1373	870	1207	1267
TAD1344VE	352	479	2100	2248	1260	12.8	1373	870	1207	1267
TAD1345VE	394	536	2100	2325	1260	12.8	1373	870	1207	1267
TAD1640VE-B	405	551	1900	2760	1200	16.1	1580	899	1311	1359
TAD1641VE-B	450	612	1800	2910	1200	16.1	1580	899	1311	1359
TAD1642VE-B	515	700	1800	3220	1200	16.1	1580	899	1311	1359
TAD1643VE-B	565	768	1900	3260	1260	16.1	1580	899	1311	1437

Stage IIIA / Tier 3*

TAD550VE	105	143	2200	710	1400	5.1	957	809	988	511
TAD551VE	129	175	2200	810	1400	5.1	957	809	988	511
TAD552VE	160	218	2200	910	1450	5.1	957	809	988	511
TAD660VE	147	200	2300	800	1600	5.7	1074	674	991	565
TAD750VE	170	231	2300	952	1500	7.2	1190	697	1036	650
TAD750VE	181	246	2300	1050	1500	7.2	1190	697	1036	650
TAD760VE	181	246	2300	1100	1500	7.2	1190	697	1036	650
TAD750VE	200	272	2300	1050	1500	7.2	1190	697	1036	650
TAD850VE	160	218	2200	1060	1350	7.7	1217	830	1004	667
TAD851VE	185	252	2200	1160	1350	7.7	1217	830	1004	667
TAD852VE	210	286	2200	1237	1350	7.7	1217	830	1004	667
TAD853VE	235	320	2200	1310	1450	7.7	1217	830	1004	667
TAD1150VE	235	320	2100	1581	1260	10.8	1309	913	1227	1041
TAD1151VE	265	360	2100	1785	1260	10.8	1309	913	1227	1041
TAD1152VE	285	388	1700	1938	1260	10.8	1309	913	1227	1041
TAD1350VE	256	348	1900	1780	1260	12.8	1373	870	1207	1267
TAD1351VE	285	388	1900	1965	1200	12.8	1400	876	1200	1267
TAD1352VE	315	428	1900	2175	1200	12.8	1400	876	1200	1267
TAD1353VE	345	470	1900	2380	1200	12.8	1400	876	1200	1267
TAD1650VE	397	540	1800	2551	1400	16.1	1582	868	1320	1425
TAD1650VE-B	405	551	1900	2757	1260	16.1	1490	894	1351	1322
TAD1651VE	450	612	1900	2897	1260	16.1	1490	894	1351	1322

Stage IIIB / Tier 4i*

TAD1360VE	256	348	1900	1745	1200	12.8	1427	876	1200	1267
TAD1361VE	285	388	1900	1966	1200	12.8	1427	876	1200	1267
TAD1362VE	315	428	1900	2175	1200	12.8	1427	876	1200	1267
TAD1363VE	345	469	1900	2380	1200	12.8	1427	876	1200	1267
TAD1364VE	375	510	1900	2595	1200	12.8	1427	876	1200	1267
TAD1365VE	405	551	1900	2650	1200	12.8	1427	876	1200	1267
TAD1660VE	405	551	1900	2761	1200	16.1	1582	893	1351	1359
TAD1661VE	450	612	1900	2913	1200	16.1	1582	893	1351	1359
TAD1662VE	515	700	1800	3220	1200	16.1	1582	893	1351	1359

Stage IV / Tier 4f*

TAD570VE	105	143	2300	710	1200	5.1	982	864	992	556
TAD571VE	129	175	2300	810	1200	5.1	982	864	992	556
TAD572VE	160	218	2300	910	1450	5.1	982	864	992	556
TAD870VE	160	218	2200	1060	1200	7.7	1207	889	1006	696
TAD871VE	185	252	2200	1160	1200	7.7	1207	889	1006	696
TAD872VE	210	286	2200	1235	1350	7.7	1207	889	1006	696
TAD873VE	235	320	2200	1310	1450	7.7	1207	889	1006	696
TAD1170VE	235	320	2100	1581	1260	10.8	1309	913	1227	1041
TAD1171VE	265	360	2100	1750	1260	10.8	1309	913	1227	1041
TAD1172VE	285	388	1700	1938	1250	10.8	1309	913	1227	1041
TAD1371VE	285	388	1900	1965	1200	12.8	1400	876	1200	1267
TAD1372VE	315	428	1900	2175	1200	12.8	1400	876	1200	1267
TAD1373VE	345	469	1900	2380	1200	12.8	1400	876	1200	1267
TAD1374VE	375	510	1900	2595	1200	12.8	1400	876	1200	1267
TAD1375VE	405	551	1900	2650	1200	12.8	1400	876	1200	1267
TAD1670VE	405	551	1900	2750	1260	16.1	1490	894	1351	1322
TAD1671VE	450	612	1900	2900	1260	16.1	1490	894	1351	1322
TAD1672VE	515	700	1800	3200	1260	16.1	1490	894	1351	1322