

**VOLVO
PENTA**

ENGINE RANGE

Industrial engines



Power Generation

5 LITRE SERIES



7 LITRE SERIES



8 LITRE SERIES



13 LITRE SERIES



16 LITRE SERIES



Off-road and stationary

5 LITRE SERIES



8 LITRE SERIES



11 LITRE SERIES

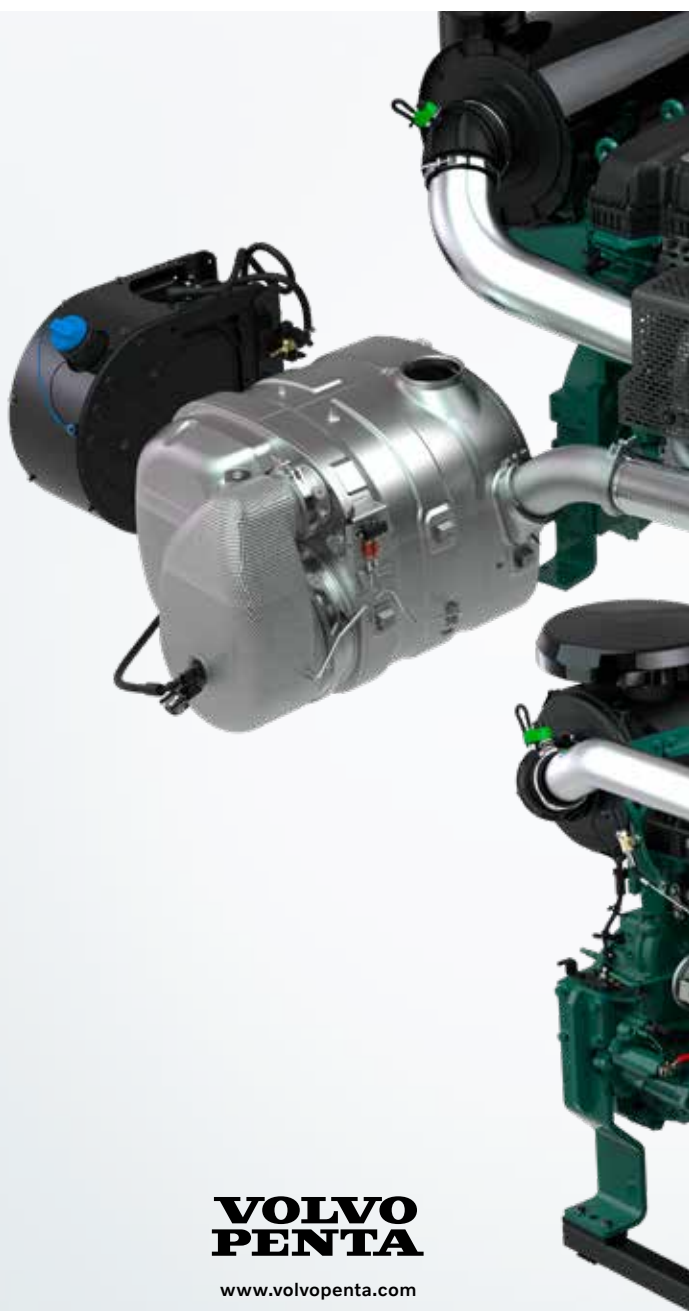


13 LITRE SERIES



16 LITRE SERIES





**VOLVO
PENTA**

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Power Generation Engines

Stage II / Tier 2*

Engine	50 Hz/1500 rpm								
	CONTINUOUS POWER			PRIME POWER			STANDBY		
	kWm	kWe	kVA	kWm	kWe	kVA	kWm	kWe	kVA
TAD530GE				75	68	85	83	76	95
TAD531GE				88	81	101	97	89	112
TAD532GE				113	104	130	125	115	144
TAD731GE				134	123	154	148	136	170
TAD732GE				159	146	183	176	162	202
TAD733GE				176	164	205	194	180	226
TAD734GE				219	204	255	241	224	280
TAD841GE	165	152	190	220	202	253	242	223	278
TAD842GE	194	180	225	258	240	300	284	264	330
TAD843GE	210	195	245	280	260	326	308	286	359
TAD1341GE-B				275	255	319	302	281	351
TAD1342GE-B				303	282	352	333	310	387
TAD1343GE-B				325	302	378	356	331	414
TAD1344GE-B				354	329	411	389	362	452
TAD1345GE-B				388	365	456	431	405	506
TAD1640GE-B				392	368	460	431	405	506
TAD1641GE-B				430	404	505	473	445	556
TAD1642GE-B				503	473	591	554	521	651
TWD1644GE				555	521	652	610	573	717
TWD1645GE				595	560	700	655	616	770

Stage IIIA / Tier 3*

Engine	50 Hz/1500 rpm								
	CONTINUOUS POWER			PRIME POWER			STANDBY		
	kWm	kWe	kVA	kWm	kWe	kVA	kWm	kWe	kVA
TAD550GE				76	69	86	84	76	96
TAD551GE				89	82	102	98	90	113
TAD750GE				113	104	130	127	117	146
TAD751GE				132	121	152	146	134	168
TAD752GE				158	145	182	174	160	200
TAD753GE				175	163	203	194	180	226
TAD754GE				219	204	255	242	225	281
TAD851GE	152	141	177	217	202	253	239	222	278
TAD852GE	167	156	195	239	222	278	263	245	306
TAD853GE	181	168	210	258	240	300	284	264	330
TAD1350GE									
TAD1351GE				279	259	324	306	285	356
TAD1352GE				314	292	365	345	321	401
TAD1353GE									
TAD1354GE				328	305	381	361	336	420
TAD1355GE				355	334	417	390	367	458
TAD1650GE				393	370	462	433	407	508
TAD1651GE				430	404	505	473	445	556
TWD1652GE				505	480	600	557	529	661
TWD1653GE				547	520	650	604	574	717

Tier 4f*

Engine	50 Hz/1500 rpm								
	CONTINUOUS POWER			PRIME POWER			STANDBY		
	kWm	kWe	kVA	kWm	kWe	kVA	kWm	kWe	kVA
TWD1672GE									
TWD1673GE									
TWD1683GE	428	402	502	570	536	670	627	589	737

Stage V*

Engine	50 Hz/1500 rpm								
	CONTINUOUS POWER			PRIME POWER			STANDBY		
	kWm	kWe	kVA	kWm	kWe	kVA	kWm	kWe	kVA
TAD880GE	99	92	115	132	123	153	145	135	169
TAD881GE	130	120	151	173	161	201	190	177	221
TAD882GE	162	151	189	216	201	252	238	221	277
TAD1380GE	195	181	227	260	242	302	286	266	332
TAD1381GE	227	211	264	303	282	352	333	310	387
TAD1382GE	258	240	300	345	320	401	379	352	441
TWD1683GE	428	402	502	570	536	670	627	589	737

Stage II / Tier 2*

Engine	400 Hz/2000 rpm					
	PRIME POWER			STANDBY		
	kWm	kWe	kVA	kWm	kWe	kVA
TAD733GE	171	157	197	192	177	221

* 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

60 Hz/1800 rpm

CONTINUOUS POWER			PRIME POWER			STANDBY			GENERATOR EFF. (%)
kWm	kWe	kVA	kWm	kWe	kVA	kWm	kWe	kVA	
			76	69	86	85	77	97	91%
			91	84	105	100	92	115	92%
			114	105	131	126	116	145	92%
			139	128	160	153	141	176	92%
			173	159	199	192	177	221	92%
			192	179	223	213	198	248	93%
			223	207	259	247	230	287	93%
167	154	192	223	205	256	245	225	282	92%
194	181	226	259	241	301	285	265	331	93%
206	191	239	275	255	318	302	281	351	93%
			294	273	342	324	301	377	93%
			345	321	401	377	351	438	93%
			353	328	410	388	361	451	93%
			392	364	455	431	401	501	93%
			392	368	460	431	405	506	94%
			430	404	505	479	450	563	94%
			485	456	570	546	513	642	94%
			532	500	625	585	550	687	94%
			582	547	684	640	602	752	94%
			619	582	727	681	640	800	94%

60 Hz/1800 rpm

CONTINUOUS POWER			PRIME POWER			STANDBY			GENERATOR EFF. (%)
kWm	kWe	kVA	kWm	kWe	kVA	kWm	kWe	kVA	
			85	77	97	94	86	107	91%
			100	92	115	110	101	127	92%
			125	115	144	141	130	162	92%
			148	136	170	164	151	189	92%
			177	163	204	196	180	225	92%
			197	183	229	218	203	253	93%
			222	206	258	245	228	285	93%
156	145	181	233	207	259	245	228	285	92%
173	161	201	247	230	287	272	253	316	93%
192	178	223	274	254	318	301	280	350	93%
			245	227	284	269	250	313	93%
			294	273	341	323	300	375	93%
			344	320	400	376	350	437	93%
			391	364	454	430	400	500	93%
			344	320	400	376	350	437	93%
			344	323	404	376	353	442	94%
			439	413	516	483	454	568	94%
			494	464	580	546	513	641	94%
									95%
									95%

60 Hz/1800 rpm

CONTINUOUS POWER			PRIME POWER			STANDBY			GENERATOR EFF. (%)
kWm	kWe	kVA	kWm	kWe	kVA	kWm	kWe	kVA	
			532	508	635	685	559	698	95.5%
			595	570	713	655	625	781	95.5%
447	420	525	595	560	700	655	616	770	94%

60 Hz/1800 rpm

CONTINUOUS POWER			PRIME POWER			STANDBY			GENERATOR EFF. (%)
kWm	kWe	kVA	kWm	kWe	kVA	kWm	kWe	kVA	
113	105	132	151	140	175	166	154	193	93%
149	138	173	198	184	230	218	203	253	93%
164	152	190	218	203	254	240	223	279	93%
205	191	239	274	254	318	301	280	350	93%
237	220	275	315	293	367	347	323	403	93%
258	240	300	345	320	401	379	352	441	93%
447	420	525	595	560	700	655	616	770	94%

GENERATOR EFF. (%)
92%

TAD 1353 GE

Turbocharged

Type of intercooling

A = Air-to-air

W = Water-to-air

Type of fuel

D = Diesel fuel

G = Gaseous Fuel

Displacement indication (litre)

Generation

Version

Type of application

G = Gen Set

V = Versatile industry application

Exhaust emission certified

Industrial Engines for Off-Road applications

Stage II / Tier 2*

Engine	MAXIMUM POWER			PEAK TORQUE	
	kW	Hp	rpm	Nm	rpm
TAD540VE	105	143	2200	710	1400
TAD541VE	129	175	2200	810	1400
TAD542VE	160	218	2200	910	1450
TAD840VE	160	218	2200	1060	1350
TAD841VE	185	252	2200	1160	1350
TAD842VE	210	286	2200	1237	1350
TAD843VE	235	320	2200	1310	1450
TAD1140VE	235	320	2100	1581	1260
TAD1141VE	265	360	2100	1785	1260
TAD1142VE	285	388	1700	1938	1260
TAD1340VE	256	348	2100	1790	1260
TAD1341VE	275	374	2100	1905	1260
TAD1342VE	310	422	2100	2000	1260
TAD1343VE	332	452	2100	2119	1260
TAD1344VE	352	479	2100	2248	1260
TAD1345VE	394	536	2100	2325	1260
TAD1640VE-B	405	551	1900	2760	1200
TAD1641VE-B	450	612	1800	2910	1200
TAD1642VE-B	515	700	1800	3220	1200
TAD1643VE-B	565	768	1900	3260	1260

Stage IIIA / Tier 3*

TAD550VE	105	143	2200	710	1400
TAD551VE	129	175	2200	810	1400
TAD552VE	160	218	2200	910	1450
TAD850VE	160	218	2200	1060	1350
TAD851VE	185	252	2200	1160	1350
TAD852VE	210	286	2200	1237	1350
TAD853VE	235	320	2200	1310	1450
TAD1150VE	235	320	2100	1581	1260
TAD1151VE	265	360	2100	1785	1260
TAD1152VE	285	388	1700	1938	1260
TAD1350VE	256	348	1900	1780	1260
TAD1351VE	285	388	1900	1965	1200
TAD1352VE	315	428	1900	2175	1200
TAD1353VE	345	470	1900	2380	1200
TAD1650VE-B	405	551	1900	2757	1260
TAD1651VE	450	612	1900	2897	1260

Tier 4f*

TAD570VE	105	143	2300	710	1200
TAD571VE	129	175	2300	810	1200
TAD572VE	160	218	2300	910	1450
TAD870VE	160	218	2200	1060	1200
TAD871VE	185	252	2200	1160	1200
TAD872VE	210	286	2200	1235	1350
TAD873VE	235	320	2200	1310	1450
TAD1170VE	235	320	2100	1581	1260
TAD1171VE	265	360	2100	1785	1260
TAD1172VE	285	388	1700	1938	1250
TAD1371VE	285	388	1900	1965	1200
TAD1372VE	315	428	1900	2175	1200
TAD1373VE	345	469	1900	2380	1200
TAD1374VE	375	510	1900	2595	1200
TAD1375VE	405	551	1900	2650	1200
TAD1670VE	405	551	1900	2750	1260
TAD1671VE	450	612	1900	2900	1260
TAD1672VE	515	700	1800	3200	1260

Stage V*

TAD580VE	105	143	2300	700	1300
TAD581VE	129	175	2300	800	1300
TAD582VE	160	218	2300	900	1300
TAD583VE	175	238	2300	950	1300
TAD880VE	160	218	2200	1050	1400
TAD881VE	185	252	2200	1150	1400
TAD882VE	210	286	2200	1225	1400
TAD883VE	235	320	2200	1300	1400
TAD884VE	250	340	2200	1330	1400
TAD1180VE	235	320	2100	1580	1400
TAD1181VE	265	360	2100	1785	1400
TAD1182VE	285	388	1800	1930	1400
TAD1183VE	315	428	1700	1930	1400
TAD1381VE	285	388	1900	1925	1200
TAD1382VE	315	428	1900	2175	1200
TAD1383VE	345	469	1900	2380	1200
TAD1384VE	375	510	1900	2540	1200
TAD1385VE	405	551	1700	2650	1200
TWD1683VE	585	796	1900	3650	1200

Displ. Litres	Length mm	Width mm	Height mm	Dry weight kg
5.1	968	921	982	511
5.1	968	921	982	511
5.1	968	921	982	511
7.7	1200	909	982	667
7.7	1206	909	982	667
7.7	1206	909	982	667
7.7	1206	909	982	667
10.8	1309	913	1207	1036
10.8	1309	913	1207	1036
10.8	1309	913	1207	1036
12.8	1373	870	1207	1267
12.8	1373	870	1207	1267
12.8	1373	870	1207	1267
12.8	1373	870	1207	1267
12.8	1373	870	1207	1267
12.8	1373	870	1207	1267
16.1	1580	899	1311	1359
16.1	1580	899	1311	1359
16.1	1580	899	1311	1359
16.1	1580	899	1311	1437
5.1	968	921	982	511
5.1	968	921	982	511
5.1	968	921	982	511
7.7	1206	909	982	667
7.7	1206	909	982	667
7.7	1206	909	982	667
7.7	1206	830	982	667
10.8	1309	913	1227	1041
10.8	1309	913	1227	1041
10.8	1309	913	1227	1041
12.8	1373	870	1207	1267
12.8	1400	876	1200	1267
12.8	1400	876	1200	1267
12.8	1400	876	1200	1267
16.1	1490	894	1351	1322
16.1	1490	894	1351	1322
5.1	946	870	992	556
5.1	946	870	992	556
5.1	946	870	992	556
7.7	1206	875	982	710
7.7	1206	875	982	710
7.7	1206	875	982	710
7.7	1206	875	982	710
10.8	1309	913	1227	1041
10.8	1309	913	1227	1041
10.8	1309	913	1227	1041
12.8	1400	876	1200	1267
12.8	1400	876	1200	1267
12.8	1400	876	1200	1267
12.8	1400	876	1200	1267
12.8	1400	876	1200	1267
16.1	1490	894	1351	1322
16.1	1490	894	1351	1322
16.1	1490	894	1351	1322
5.1	968	809	992	547
5.1	968	809	992	547
5.1	968	809	992	547
5.1	968	809	992	547
7.7	1207	889	1006	703
7.7	1207	889	1006	703
7.7	1207	889	1006	703
7.7	1207	889	1006	703
7.7	1207	889	1006	703
10.8	1400	921	1227	1057
10.8	1400	921	1227	1057
10.8	1400	921	1227	1057
10.8	1400	921	1227	1057
12.8	1251	923	1200	1215
12.8	1251	923	1200	1215
12.8	1251	923	1200	1215
12.8	1251	923	1200	1215
12.8	1251	923	1200	1215
16.1	1676	1050	1362	1648